

REMARK
COMMENT

Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
 NIH-MGC Project URL: <http://mgc.nci.nih.gov>
 On Aug 19, 2003 this sequence version replaced gi:15530217.
 Contact: MGC help desk
 Email: cgabs-remail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Institute for Systems Biology
<http://www.systemsbio.org>
 Contact: amadan@systemsbiology.org
 Anup Madan, Jessica Fahey, Erin Helton, Mark Kettelman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting

FEATURES

source

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAL Plate: 14 Row: m Column: 14
 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 3422363.
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ORIGIN

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 Matches 2096; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

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(without alignments)
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Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1560	74.4	1580	8 AK027109	AK027109 Homo sapi
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6	1163	45.5	3040	9 BC015459	BC015459 Mus muscu
7	1042.8	49.8	2141	9 BC089216	BC089216 Rattus no
8	859	41.0	2521	8 AK027142	AK027142 Homo sapi
9	745.2	35.6	2064	5 BC933564	BC933564 Gallus ga
10	671	32.0	2296	8 AK074419	AK074419 Homo sapi
11	594.4	28.4	3616	5 BC061676	BC061676 Xenopus l
12	556	26.5	359	6 AX379210	AX379210 Sequence
13	397	18.9	685	5 BX931244	BX931244 Gallus ga
14	382.6	18.3	2563	5 BC068330	BC068330 Danio rer
15	381	18.2	2566	5 AY398378	AY398378 Danio rer
16	377.8	18.0	2570	5 BC050238	BC050238 Danio rer
17	365.8	17.5	2603	5 BC092786	BC092786 Danio rer
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ALIGNMENTS

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ACCESSION BC013888
VERSION BC013888.2 GI:33871229
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 2096)
AUTHORS Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang D., Hsieh F., Diatchenko M., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usslin T.B., Toshiyuki S., Carrinci P., Prange C., Raha S.S., Loggellano N.A., Peters G.J., Abramson R.D., Muliyil S.J., Bosak S.A., McEwan P.J., Mckernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Huiyk S.W., Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettman M., Madan A., Young A.C., Shchepenko Y., Sanchez A., Whiting M., Madan A., Young A.C., Shchepenko Y., Bouffard G., Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butlerfield Y.S., Krzywinski M.I., Skalska J., Smallwood D.B., Scherch A., Schein J.E., Jones S.J. and Marra M.A.
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
PUBMED 12477932
REFERENCE 2 (bases 1 to 2096)
AUTHORS Director MGC Project.
TITLES Direct Submission
JOURNAL Submitted (07-SEP-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer


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DEFINITION Sequence 89 from Patent WO0077040.
ACCESSION AX058219
VERSION AX058219.1 GI:12310720
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1
AUTHORS Yue,H., Tang,Y.T., Hillman,J.L., Lal,P., Bandman,O., Baughn,M.R.,
Azimzai,Y., Yang,J., Reddy,R. and Lu,D.A.
TITLE Human intracellular signaling molecules
JOURNAL Patent: WO 0077040-A 89 21-DEC-2000;
Incyte Genomics, Inc. (US)
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QY 1468 GTGAGAGATGAG 1527
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 QY 1528 GACTACTTGAATGTCTTATCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1587
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 QY 1648 AACGGAGATGAG 1707
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 QY 1888 TCATGCTTCTGTTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1947
 Db 1710 TCATGCTTCTGTTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1769
 QY 1948 AATAGCTTAATGAG 2007
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 QY 2008 AGTAACTTGTGTTCAATCTTTA 2030
 Db 1830 AGTAACTTGTGTTCAATCTTTA 1852

RESULT 4
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 LOCUS
 DEFINITION
 Homo sapiens CDNA: FLJ33456 fls, clone HS107211, highly similar to
 AF119666 Homo sapiens insulin receptor tyrosine kinase substrate
 mRNA.
 ACCESSION
 AK027109
 VERSION
 AK027109.1 GI:10440150
 KEYWORDS
 oligo capping; fls (full insert sequence).
 SOURCE
 Homo sapiens (human)
 ORGANISM
 Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.
 REFERENCE
 1
 Kawakami, T., Noguchi, S., Itoh, T., Shigeta, K., Senba, T.,
 Matsunura, K., Nakajima, Y., Mizuno, T., Morinaga, M., Tanigami, A.,
 Fujiwara, T., Ono, T., Yamada, K., Fujii, Y., Ozaki, K., Hiro, M.,
 Omori, Y., Ota, T., Suzuki, Y., Odayashi, M., Nishi, T., Shibahara, T.,
 Tanaka, T., Nakamura, Y., Isegai, T. and Sugano, S.
 NEDO human cDNA sequencing project
 Unpublished
 2 (bases 1 to 1580)

AUTHORS
 Sugano, S., Suzuki, Y., Ota, T., Odayashi, M., Nishi, T., Isegai, T.,
 Shibahara, T., Tanaka, T. and Nakamura, Y.
 TITLE
 Direct Submission
 JOURNAL
 Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science,
 University of Tokyo, Laboratory of Genome Structure Analysis, Human
 Genome Center, Shirokane-dat. 4-6-1, Minato-ku, Tokyo 108-8639,
 Japan (E-mail: fitchda@ims.u-tokyo.ac.jp, Tel: 81-3-5449-5286,
 Fax: 81-3-5449-5416)

COMMENT
 NEDO human cDNA sequencing project supported by Ministry of

International Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction, 5' - & 3' - end one pass sequencing; Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).

FEATURES

source location/Qualifiers
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/clone="HS107211"
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/note="Cloning vector pMR18SF13"
1..1580
/note="Highly similar to APL19666 Homo sapiens insulin receptor tyrosine kinase substrate mRNA"

ORIGIN

Query Match 74.4%; Score 1560; DB 8; Length 1580;
Best Local Similarity 99.6%; Pred. No. 1.4e-260;
Matches 1574; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

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619 AATTCACGCTGATGAGAAAGATGAGAAAGAAAGCAAGCAAGCAAGCACTC 678
121 AATTCACGCTGATGAGAAAGATGAGAAAGAAAGCAAGCAAGCAAGCACTC 180
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361 GCAGAACTACTGAAATTCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
919 GTGCCAGAGAAATCATGAAATGATCGAAAGAAATTAAGCCCAAGCTCTACCCCGTG 978
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1219 GACAGTAACATGATGAAGAAAGCAAGAAAGTGAAGCACTTCCCGCACTGGGGCTCC 1278

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721 GACAGTAACATGATGAAGAAAGCAAGAAAGTGAAGCACTTCCCGCACTGGGGCTCC 780
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781 AAGCAAGCTTACTACGCTTTGACAGAGAGATGATCATCAGCTGCATATCCCGAGAG 840
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841 AAGATGCTGCTCTATATGAGAAACAGAGCTGCTCAAGGCTGAGGGTGTTCCTCG 900
1399 TCGTACAGAGATGCTGAGAAAGAAATGAGCAAGAGAGAGAGAGAGAGAGAGAGAG 1458
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1261 AGCGAAG 1320
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1938 ATTAATGAGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1997
1441 ATTAATGAGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1500
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2058 AAAAAAAAAAAAAAAAAAAAAA 2077
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RESULT 5
CQ730103 1491 bp DNA linear PAT 03-FEB-2004
LOCUS CQ730103 16037 from Patent WO02068579.
DEFINITION CQ730103
ACCESSION CQ730103
VERSION CQ730103.1 GI:42303049
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens; Metazoa; Chordata; Vertebrata; Euteleostomi;
Eukaryota; Eutheria; Eumarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.
REFERENCE 1

TITLE
JOURNAL
PUBMED
AUTHORS
TITLE
JOURNAL

REMARK
COMMENT

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILNL at: <http://image.llnl.gov>
Series: IRKX Plate: 11 Row: b Column: 23
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 27229018.
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ORIGIN
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Query Match 55.5%; Score 1163; DB 9; Length 3040;
Best Local Similarity 78.5%; Pred. No. 1.2e-191;
Matches 1501; Conservative 0; Mismatches 380; Indels 30; Gaps 8;

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228 GCCGAGAGAGTGAACCGGCTCACGAGAGACCTACCGGAAATTTATGAGAACTGTAACGCTAT 287
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481 AAGGAAAG 540
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768 GGCCTGCTTGAAG 827
601 AGCCCTGCTTGAAG 660
828 AAGACACATTAATTAAGTCTTTGAGAAATTTCAACAAAGATTTATCATGAGCT 887
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841 CGAG 900
1068 GCGCCCGCTCTTCAAG 1127
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 QY 1915 GTTGACAAGTTTGTGCTTTAAGATAATGATTAATGCTTAATGACCGCTCAGCCATT 1974
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 QY 1975 TAAATATTTTCTT 1988
 DB 1836 TGAAGCTTTTCTT 1849
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 LOCUS Homo sapiens CDNA: FLJ23489 fls, clone LNC00746.
 DEFINITION AK027142
 VERSION AK027142.1 GI:10440194
 KEYWORDS oligo capping; fls (full insert sequence).
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE
 AUTHORS 1
 Kawakami, T., Noguchi, S., Itoh, T., Shigeta, K., Senba, T.,
 Matsumura, K., Nakajima, Y., Mizuno, T., Morinaga, M., Tanigami, A.,
 Fujiwara, T., Ono, T., Yamada, K., Fujii, Y., Ozaki, K., Hirao, M.,
 Ohmori, Y., Ota, T., Suzuki, Y., Obayashi, M., Nishi, T., Shibahara, T.,
 Tanaka, T., Nakamura, Y., Isogai, T. and Sugano, S.
 NEDO human cDNA sequencing project
 JOURNAL Unpublished
 TITLE 2 (bases 1 to 2521)
 REFERENCE Sugano, S., Suzuki, Y., Ota, T., Obayashi, M., Nishi, T., Isogai, T.,
 Shibahara, T., Tanaka, T. and Nakamura, Y.
 DIRECT SUBMISSION
 JOURNAL Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science,
 University of Tokyo, Laboratory of Genome Structure Analysis, Human
 Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639,
 Japan (E-mail: flicdn@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286,
 Fax:81-3-5449-5416)
 COMMENT NEDO human cDNA sequencing project supported by Ministry of
 International Trade and Industry of Japan; cDNA full insert
 sequencing: Research Association for Biotechnology; cDNA library
 construction: 5'- & 3'-end one pass sequencing: Department of
 Virology and Human Genome Center, Institute of Medical Science,
 University of Tokyo (partly supported by Science and Technology
 Agency).
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 ORIGIN
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 Best Local Similarity 99.4%; Pred. No. 6,6e-139;
 Matches 862; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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 QY 1224 GAACATGATGAAAGACAGAAAGTGAAGACCATCTTCCGCACTGCGGGCTCCAACA 1283
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 QY 1884 CAATCATGCTTCTCTGTTTACAGTATGAGTGGTTGACAAGTTTGCCTTAAGATAAT 1943
 DB 721 CAATCATGCTTCTCTGTTTACAGTATGAGTGGTTGACAAGTTTGCCTTAAGATAAT 780
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 DB 781 GAGTAATAGTCAATGACCAAGCTCAGCCATTTAAATATTTCTTCTATCTGTTCAAG 840
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 DB 841 AAACAGTAACCTGTTTCAATCTTTA 867
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 DEFINITION BX933564
 ACCESSION BX933564
 VERSION BX933564.2 GI:46017940
 KEYWORDS
 ORGANISM Gallus gallus (chicken)
 SOURCE Gallus gallus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus.

SOURCE
ORGANISM Homo sapiens (human)

REFERENCE
AUTHORS Watanabe, K., Kumagai, A., Itakura, S., Yamazaki, M., Tashiro, H., Ota, T., Suzuki, Y., Ohashi, M., Nishi, T., Shibahara, T., Tanaka, T., Nakamura, Y., Isogai, T. and Sugano, S.

TITLE NEDO human cDNA sequencing project

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 2296)

AUTHORS Sugano, S., Suzuki, Y., Ota, T., Ohashi, M., Nishi, T., Isogai, T., Shibahara, T., Tanaka, T. and Nakamura, Y.

TITLE Direct Submission

JOURNAL Submitted (14-FEB-2002) Sumio Sugano, Institute of Medical Science, University of Tokyo, Laboratory of Genome Structure, Human Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639, Japan (E-mail: flicdn@ims.u-tokyo.ac.jp, Tel: 81-3-5449-5286, Fax: 81-3-5449-5416)

COMMENT NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction: S- & 3-end one pass sequencing: Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).

FEATURES
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ORIGIN
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Best Local Similarity 100.0%; Pred. No. 2.8e-106;
Matches 671; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 GAACACGACGTGTCCAGAGCGGGGTTGTTCCCGTGTCTGTACAGAAAGTGTGGA 60

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DB 421 TCTCGGTTCTCCCTGTGGAGATGATGGGGGACATCTGTGTGCAACGCTGAGAGCGGTGG 480

QY 1840 GAAGCTTCAGTGAGAGCGCTTAACCTTAATGTGCGCTGTAAAGCAATCATGCTTCT 1899

DB 481 GAAGCTTCAGTGAGAGCGCTTAACCTTAATGTGCGCTGTAAAGCAATCATGCTTCT 540

QY 1900 GTTTCACGTAGTGGGTGACCAAGTTCTGCGCTTTAAGATTAAGTAAAGTAAAGT 1959

DB 541 GTTTCACGTAGTGGGTGACCAAGTTCTGCGCTTTAAGATTAAGTAAAGTAAAGT 600

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QY 2020 TTCAATCTTA 2030

DB 661 TTCAATCTTA 671

RESULT 11

LOCUS BC061676

DEFINITION Xenopus laevis hypothetical protein MG66822, mRNA (cDNA clone

ACCESSION MG66822 IMAGE:4633564), complete cds.

VERSION BC061676

KEYWORDS MG66822 GI:38197625

SOURCE

ORGANISM Xenopus laevis (African clawed frog)

Xenopus laevis

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;

Xenopodinae; Xenopus; Xenopus.

1 (bases 1 to 3616)

Klein, S.L., Strausberg, R.L., Wagner, L., Pontius, J., Clifton, S.W. and Richardson, P.

Genetic and genomic tools for Xenopus research: The NIH Xenopus Initiative

Dev. Dyn. 225 (4), 384-391 (2002)

12454917

2 (bases 1 to 3616)

Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stopleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullaly, S.J., Bosak, S.A., McMan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Holys, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettelman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Green, E.D., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Scherchenko, Y., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalka, U., Smilins, D.E., Scherchenko, A., Schein, J.E., Jones, S.J. and Matra, M.A.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

12477932

3 (bases 1 to 3616)

Klein, S. and Strausberg, R.

Direct Submission

Submitted (05-NOV-2003) National Institutes of Health, Xenopus Gene Collection (XGC), National Institute of Child Health and Human Development, 6100 Executive Boulevard, Room 4B01, Rockville, MD 20892-7510, USA

NIH-MGC Project

Contact: XGC help desk

Email: gcapbs-remail.nih.gov

Tissue Procurement: Dr. Igor Dawid

cDNA Library Preparation: Life Technologies, Inc.

REMARK

COMMENT

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (HLNI)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>
Contact: nisc.mc@nih.gov

Ahler, N., Ayale, K., Beckstrom-Sternberg, S.M., Benjamin, B.,
Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooke, S.,
Dieterich, N.L., Granite, S., Guan, X., Gupta, V., Haight, P.,
Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legaspi, R.,
Maduro, Q.L., Mastello, C., Maskell, B., Mastrian, S.D., McCloskey, D.C.,
McGowan, J., Pearson, R., Stantipop, S., Thomas, P.J., Touchman, J.W.,
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Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/HLNI at: <http://image.llnl.gov>
Series: IRAX Plate: 128 Row: P Column: 13.
Location/Qualifiers

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226 GAAAAAGCAATGGAGCAATGTCAGAGAGAAAGAGCGTATTAATGATGAGAGTGGCAAG 285
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466 ACCCTTAAGAGTCCAGACAGAGCAAAATTAAGATGATGAGAAATTTCCAA 525
628 GCTGAGTTGAAGAGATCAGAGAGAAAGCCAGAGAAAGCCAGCTCAATTAATGA 687
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646 ATAGCGAGAGGCTGAGAGAGGCTCTGCTTGAGAGAGAGAGGAGATTCGTTCTGTTG 705
808 GATTAAGCATGTCGCTTTGCAACCACTTATTTTCACTTAATGAGTCTGCAAGTAACTA 867
706 GACAAACATGCACTGCTCTGCAATTAATTAATTAATTAATTAATTAATTAATTAATTC 765
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988 CCTGAGCTTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1047
886 CTGAAACCATCCCTCAATTAATGA-----CAAAAGAGAGAGAGAGAGAGAGAGAGAG 939
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940 TATTAAGAACACCTAAGATGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 999
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1000 GTTGAATGTTTAAATTAAG 1059
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1222 CTGAATGATGAG 1281
1120 TTGAATCAATTAAG 1176
1282 AAGACCTTAATCAAG 1341
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DB 1475 ATAGCAACCGGGAGATACA-----CTTTCAGCCAC-----TCATGCCAAGATCTCTCT 1524
QY 1636 CCTAAGATGCGCAACCGGAGCTGCAAGAGCGGCTTTTCTGAGGGGAGAAACCCCTTGGC 1695
DB 1525 CCTTCAACTGCAAAATGGCATCTACATCAATTCATTTCTAAGTGAAGAAAACCATTTTCC 1584
QY 1696 ACTGTGAATCTCCGCCGAGCTGTGAGCAATGATCGCTCCGCAACCATCATTCGATGAG 1753
DB 1585 ACCATCAAGCTCCGACCAACCGGTAACAATGACCGATCTGGCCCAATCATCTCGATGAG 1642

RESULT 12
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LOCUS DEFINITION Sequence 252 from Patent WO0196389.
ACCESSION AX379210
VERSION AX379210.1 GI:19575050
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
Homnidae; Homo.
REFERENCE
AUTHORS Meagher,M.J., King,G.E., Xu,J. and Secrist,H.
TITLE Compositiions and methods for the therapy and diagnosis of colon
JOURNAL Cancer
PATENT Patent: WO 0196389-A 252 20-DEC-2001;
CORIXA CORPORATION (US)
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Matches 556; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 983 GAATCTCTGAGGCTTACCCATGATCGAAGAGCAATGTGTTAGAAAGATTACGACA 1042
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DB 541 ACACGAAGTTGCTGGAAGA 559

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LOCUS DEFINITION Gallus gallus finished cdna, clone CHEST261d10.
ACCESSION BX931244
VERSION BX931244.1 GI:41631772
KEYWORDS
SOURCE Gallus gallus (chicken)
ORGANISM Gallus gallus
Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
Homnidae; Gallus.
REFERENCE
AUTHORS Boardman,P.E., Bonfield,J.K., Brown,W.R.A., Carder,C., Chalk,S.E.,
Croning,M.D.R., Davies,R.M., Francis,M.D., Grahm,D.V.,
Hubbard,S.J., Humphray,S.J., Hunt,P.J., Maddison,M., McLaren,S.R.,
Nilet,D., Overton,I.M., Rogers,J., Scott,C.E., Taylor,R.G.,
Tickle,C. and Wilson,S.A.
TITLE Direct Submission
JOURNAL Submitted (02-FEB-2004) Sanger Institute, Hinxton, Cambridgeshire,
B10 1SA, UK. E-mail enquiries: chickens@hms.ums.ac.uk
COMMENT BBRC/Dundee/Nottingham/Sanger/Sheffield/UMIST Gallus gallus cdna
sequencing project.
This sequence is from the
BBRC/Dundee/Nottingham/Sanger/Sheffield/UMIST cdna collection,
from a library constructed by Elizabeth Bosch. cdna was prepared
from RNA extracted from ovary, normalized, and poly A-titrmed.
ECORI-NotI cut cdna was then ligated into the vector. Vector:
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 VERSION BC068330.1 GI:46249678
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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 1 (bases 1 to 2563)
 Strausberg, R.D., Feingold, E.A., Grouse, L.H., Derge, J.G.,
 Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
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 Butlerfield, Y.S., Krzywinski, M.I., Skalska, U., Smalhus, D.E.,
 Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
 Mammalian Gene Collection Program Team
 Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
 PUBMED 12477932
 REFERENCE 2 (bases 1 to 2563)

AUTHORS NIH MGC Project
 CONSRM Direct Submission
 TITLE Submitted (02-APR-2004) National Institutes of Health, Mammalian
 JOURNAL Gene Collection (MGC), Bethesda, MD 20892-2590, USA
 REMARK NIH-MGC Project URL: <http://mgc.ncl.nih.gov>
 COMMENT Contact: MGC help desk
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Leonard I. Zon, M.D.
 cDNA Library Preparation: Invitrogen Corp
 DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
 Center: Stanford University School of Medicine, Stanford, CA 94305
 Web site: <http://www-shgc.stanford.edu>
 Contact: (Dickson, Mark) mcd@paxil.stanford.edu
 Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
 R. M.

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAC Plate: 165 Row: B Column: 19
 This clone was selected for full length sequencing because it
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ORIGIN

Query Match 18.3%; Score 382.6; DB 5; Length 2563;
 Best Local Similarity 60.0%; Pred. No. 3,2e-56;
 Matches 712; Conservative 0; Mismatches 439; Indels 36; Gaps 3;
 Oy 217 ATGTCCCGGGGGCCGAGAGAGTGAACCGCTCACGAGAGAGCACTTACCGAATGTTAT 276
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 Db 199 GAACAGTTCAACCCAGAGACTGGGAAATCTGTAACTCTGGGGAAGAACTATGAAATCA 258
 Oy 337 GTAACGCTATATCTCTGACAGAAAGCCTACTAGATGAGATGCGCAAGATCGGTGAG 396
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Db	319	AGTGCTGCTGTTTCCGCCGTTTCTAGGAGACTGGAGTGGTGTATATGAGATTTTCGAA	378
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QY	517	ATCCATGAGGTGAGAAAGATATGAACTTGACGTGAAATATATGAAAGCACTTAA	576
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QY	577	AGATACCAACAGAACACAGAAATTAATTAGAGCTTTTGAGAAATCCCAAGCTGAGTTT	636
Db	499	AGATACAGTCAAGAACACAAATTAAAGCAAGACTTCTGTGACAAATACAGGCTGACTG	558
QY	637	AAGAAATCAAGAAAGAAAAAGCCAAAGAGCCGAAAGCACTCAATATGAAACAAAGA	696
Db	559	AAGAAACTACGAAAGAAAAAGTCAAGGGA---AACATTGCTCAAAATATGATCAAAAGA	615
QY	697	ATTGACTATGTGAGACCGTTACTTCTGTCAGAGTGAATTCAGAAATTCATTGCAAGT	756
Db	616	AATGAGTGAATGAGAACACTGATCCCGCAACAGACATGCAAGAGTTATATGACAGAT	675
QY	757	GGTTGCAAGAGGCTCTGCTTGAGAGAAAGAGCGCTTCTGCTTTCTGTTGATTAAGAC	816
Db	676	GGATGTAAGAGGCTTTACTTGAAGAAAGAGAGTTTGTGTTCTGTGTGACAAACAC	735
QY	817	TGTGCTTTGCAACCACTACTATTAATCACTTAAGTCTGACAGAACTACTGAATTC	876
Db	736	TGTGCCCTTTCTATCACTATCAAGCTTTCCATGACAAAGCCAAAGAGATGTGACCTTC	795
QY	877	AAGCTGCCCTCGGAGGAGAGACTGTGTGATGTCATAAAGTGCACAGAAATTCATG	936
Db	796	AAACTGCCAGCTGGCAAGAAAGTGCATATGATGCAACAGGGTGCACAGACAGATGA	855
QY	937	AATATGATGAGAAATTAAGAACCCCAAGCCTCTACCCCGTGTGGAATCCTCTAGGCT	996
Db	856	TCCATGATGAGGGGTCTGGGACTTCA-----ATGTCAGTCAATACAGAGTCT	903
QY	997	TCACCCATGATGAGAGAAAGCAATGTGTAGAAAGATTACGACACCTTTCTTAATGC	105
Db	904	TCACCTACATTTGAAACGACAGT-----GACAGAACCAATTCGGGT	942
QY	1057	TCACCAAAAGATCCCCCGCTCCTTTCAGGCAAGCATATACCAAGTCCCTGATGCATATG	1111
Db	943	TCAATTTGTTCCACCGCCAGCCCCCATCTTAAGAGCCCAACAGAGCCCACTGGCAGCATG	1007
QY	1117	TTTAATTAACCCAGCCACGGCTGCCCCGCAATTCAAAAGGGTAAATTAATTCAACAGTACT	1178
Db	1003	TTCTCCCGAAGAGTCCCAAAAGCCCAATCTCATGACAGCAATTAATCAAGAGCAGT	1066
QY	1177	TCCGAAAGTCCCAAGTTACAGGATTCAGTATGTTGGTTGCAAGGAGACTGAACATGTAAG	1233
Db	1063	CTAGATGAAAGAGGCTGTCTGTGGTCTACGTACAGTGTCTAAGGGGCAATGACACGGCGAAG	1122
QY	1237	AAGCAGAAAGTCAAGACCATCTTCCCGCACTGGGGGCTCAACAAAGCTTATCTACGC	1299
Db	1123	AAGACCAAGGTGCAAACTATTTTCCCCCAACAGACAGGGAATACGAAACGCTGCTGAGC	1188
QY	1297	TTTGCAAGGAGATGTATCAACGCTGTCAATCCCGAGAGAAAGATGCTGCTCTAT	1356
Db	1183	TTTGGAGATGAGACATCATATTTTGTCTTAATCCAGAAAGACGGGACGGAATGGCTGATC	1244
QY	1357	GGAGAAACGACGTGTCCAGGCGAGGGGTGTGCTCCGCTGCTGTA	1403
Db	1243	GGAGAACTTGAACATCCGGACACAGGGGATGTGTTCCCTCTTCTTA	1289

RESULT 15	
AY398378	
LOCUS	2566 bp mRNA linear VRT_16-NOV-2004
DEFINITION	Danio rerio clone RIK125A2C09 insulin receptor tyrosine kinase

	Accession	Substrate (LOC55971) mRNA, complete cds.
	Version	AJ398378
	Keywords	AY398378.1 GI:37681866
	Source	Danio rerio (zebrafish)
	Organism	Danio rerio
	Reference	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Osteichthyes; Cypriniformes; Cyprinidae; Danio. 1 (bases 1 to 2566) Song,H.D., Sun,X.J., Deng,M., Zhang,G.W., Zhou,Y., Wu,X.Y., Sheng,Y., Chen,Y., Ruan,Z., Jiang,C.L., Fan,H.Y., Zou,L.I., Kanki,J.P., Liu,T.X., Look,A.T. and Chen,Z. Hematopoietic gene expression profile in zebrafish kidney marrow Proc. Natl. Acad. Sci. U.S.A. 101 (46), 16240-16245 (2004)
	Title	15520368 2 (bases 1 to 2566) Zhang,G.W., Sun,X.J., Wu,X.Y., Song,H.D., Zhou,Y., Liu,T.X., Deng,M., Sheng,Y., Chen,Y., Ruan,Z., Jiang,C.L., Fan,H.Y., Zou,L.I., Kanki,J.P., Look,A.T. and Chen,Z. Direct Submission Submitted (24-Sep-2003) Sate Key Lab for Medical Genomics, Shanghai Institute of Hematology, Ruijin Hospital Affiliated to Shanghai Second Medical University, 197 Rui Jin Road II, Shanghai 200025, P. R. China
	Journal	location/Qualifiers
	Features	1..2566 /organism="Danio rerio" /mol_type="mRNA" /db_xref="taxon:7955" /clone="RK125A2C09" /tissue_type="kidney marrow" 1..2566 /gene="LOC55971" 156..1613 /gene="LOC5971" /codon_start=1 /product="insulin receptor tyrosine kinase substrate"
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	gene	
	ORIGIN	
	Query Match	18.2%; Score 381; DB 5; Length 2566;
	Best Local Similarity	59.9%; Pred. No. 6e-56;
	Matches 711; Conservative	0; Mismatches 440; Indels 36; Gaps 3;
Oy	217	ATGTCCCGG3G3GCCGAGAGTGGAACCGGCTCACGAGAGCACTTACCGGAATGTTATG 276
Db	156	ATGTCCTGAGCCTTCGAGAGCATGGAACAACCTACCGAGAGCATPACAAGAATGTGATG 215
Oy	277	GAAcAGTTCAAATCCTGGGGCTGCAGAAATTATAAATACTGGGGGAAAAATTATGAGAAAAGCT 336
Db	216	GAACAGTTCAACCAGACTGCGGAATCTGTTAACCTGGGGAGAAACTTAGAGAAATYCA 275
Oy	337	GTAACGCTATGATCTCGGAGAGAAAGCCTACTACGATGAGATGGCCAAGATCGGTAG 396
Db	276	GTTGACAGCATGACCTTTCGCGAAGAGCTTATTTTGATGCACTTCAAAAAATAGGGGAA 335
Oy	397	ATTGCACTGGGTCGCCCGGTGCAACGAACTGGGACAGTCTCTCATAGATTTCAAGT 456
Db	336	AGTGTCTGCTTTTCGCGGTTTTCTTAGGAGCTGGAGTGTGTTAATGGAGATTTCAGAA 395
Oy	457	ACCCAGAAAGAACTCAACGAGACTTTGTAAGAAATTTTAAAAATTTTCACAAGAGATT 516

Db 396 GTGCACAAGAACGCCAATTGGAGATGAGAGGTCTTTCAAGAGGTTCCACAAGAGCTC 455
QY 517 ATCCATGAGCTGAGAGAAAGATAGAACTTGAAGTGAATATATGACCAACTCTAAA 576
Db 456 ATTGCTGAATCTGAAAGAAAAGTATGATACCAAGTACATGACTGCGACTTTTAAA 515
QY 577 AGATACCAACAGAACCAAGATTAATTAAGTCTTTGAGAAATCCCAAGCTGATGG 636
Db 516 AGATACCAAGTACAGAACCAATTAAGAGAGACTTCTGACAAATTCAGGCTGACCTG 575
QY 637 AAGAAGATCAGAGAGAAAGCCAGAAAGCCAAACGACTCAATATGACACAAAGAA 696
Db 576 AAGAAGATCAGAGAGAAAGTCAAGGA---AACATTCGTCCAATATGAGATCAAGAA 632
QY 697 ATTGAGTATGAGAGACCTTACTTCTGTCAGAGTGAATCCAGAAATTCATTCAGAT 756
Db 633 AATGAGTCAATGAGACCATCTCATCCGCGACAGACATGACAGGTTTATTCAGAT 692
QY 757 GATTGCAAGAGGCTCTGCTTGAAGAGAGAGCGCTTCTGCTTCTGCTTGAATGACAC 816
Db 693 GATGTAGAGAGGCTTTTACTAGAGAGAAAGAGGTTTCTTCTGCTGAGCAAAACAC 752
QY 817 TGTGCTTTGCAACCAATACATTATTATCACTTACAGTTCAGAACTACTGAATTC 876
Db 753 TGTGCTTTTCTTATCACTATCAGCTTTCATGACAAAGCCAGAGATGCTGACCGTC 812
QY 877 AAGCTGCTCGGTGCGAGAGACCTGTGTGATGCCATCAAGTGCAGAGAAATCATG 936
Db 813 AAATGCGCCAGCTGCGAGAGAAAGTCAATGATGACACAGGCTGCAGACACAGTATA 872
QY 937 AATATGATGAGAAATTAAGACCCGCTTACCCCGTGTGGAATCTCTCAGGCT 996
Db 873 TCCATGATGAGAGGCTGTGCGACTTCA-----ATGTCAGTCAATACAGAGTCT 920
QY 997 TCACCATGATGAGAGAGCAATGTGTTAGAGAAAGTTACAGACACCTTTCTAAATGC 1056
Db 921 TCACCTAATGGAAGCAGT-----GACAGACCAATTCGGT 959
QY 1057 TCACCAAGATGCCCCCGCTCTTCAAGCAGACATATACCATGCTTGAATGATATG 1116
Db 960 TCAATTTGTTCAACCGCACGCCCATCTTAAGCCACACGAGCCCATGCGCAGCATG 1019
QY 1117 TTTAATTAACCCAGCCAGGCTGCGCAATTCACAAAGGTAATTAATTCACAGGTACT 1176
Db 1020 TTCTCCCGAGAAAGTCCCAAAAGCCCATCTCATCAGAGAGATTCAGATCAGACAGT 1079
QY 1177 TCCGAAGATCCAGTTTACAGCGATCAATTCGCTTGCACAGGACTGAACATGATGAG 1236
Db 1080 CTAGACGAAGACGGCTGTCTGCTCTAGTCTTACGCGCATGACACGCGGCAAA 1139
QY 1237 AAGCAGAAAGTGAAGACCATCTTCCCGCACATGCGGGGCTCCAAAGACCTTACTCAGC 1296
Db 1140 AAGACCAAGGTGCAACTATTTTCCCAACAGCAGAGGGAATTAAGAAACGCTGAGC 1199
QY 1297 TTTGACAGGAGATGCTCATCAGCTCATCCCGAGAGAGAGATGAGCTGCTTAT 1356
Db 1200 TTTGAGAGATGAGACATCATTTATTTGCTTATCAGAGAGAGCGGAGCGATGAGCTGAC 1259
QY 1357 GGAGAACACGACGTGTCAGAGCGGAGGTTGGTTCCGTCGTGTA 1403
Db 1260 GGAGAACTTGACATACCGGACAAACGGGATGGTTTCCGTCTTCTTA 1306

Search completed: March 20, 2006, 16:31:42
Job time : 10294 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:44:26 ; Search time 2596 Seconds
(without alignments)
1882.610 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096
Sequence: 1 ctccctcgtcctcgaagaa.....aaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 8023312 seqs, 1165852854 residues

Total number of hits satisfying chosen parameters: 16046624

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

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13: /cgnt2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	357.4	17.1	516	US-11-021-492-430	Sequence 430, App
2	266.6	12.7	2078	US-11-128-061-1100	Sequence 1100, App
3	266.6	12.7	2078	US-11-128-049-1100	Sequence 1100, App
4	209.6	10.0	303	US-11-128-061-2130	Sequence 2130, App
5	209.6	10.0	303	US-11-128-061-5772	Sequence 5772, App
6	209.6	10.0	303	US-11-128-049-2130	Sequence 2130, App
7	209.6	10.0	303	US-11-128-049-5772	Sequence 5772, App
8	147.2	7.0	640	US-09-925-065A-730687	Sequence 730687, App
9	81.4	3.9	1395	US-10-955-054A-111	Sequence 111, App
10	79.4	3.8	1400	US-11-128-061-4742	Sequence 4742, App
11	79.4	3.8	1400	US-11-128-049-4742	Sequence 4742, App
12	79.4	3.8	2036	US-10-996-217A-8	Sequence 8, App1
13	78.8	3.8	1400	US-11-136-527-7203	Sequence 7203, App
14	78.8	3.8	1467	US-11-136-527-3107	Sequence 3107, App
15	77.8	3.7	2120	US-10-689-742-163	Sequence 163, App
16	77.8	3.7	932	US-11-031-206-65	Sequence 65, App1
17	77.4	3.7	1133	US-10-663-794-1	Sequence 1, App1
18	76	3.6	1400	US-11-136-527-6433	Sequence 6433, App
19	76	3.6	3801	US-11-136-527-2337	Sequence 2337, App
20	75.8	3.6	2255	US-11-096-568A-2260	Sequence 2260, App

21	75.6	3.6	2797	12	US-11-120-308-133	Sequence 133, App
22	75.6	3.6	4330	12	US-11-091-883-182	Sequence 182, App
23	75.4	3.6	1456	9	US-11-096-568A-12004	Sequence 12004, App
24	75.4	3.6	2091	8	US-10-276-233A-19	Sequence 19, App1
25	75	3.6	1273	9	US-11-096-568A-12247	Sequence 12247, App
26	75	3.6	4339	8	US-10-909-125-801	Sequence 801, App
27	74.8	3.6	2162	12	US-11-091-883-330	Sequence 330, App
28	74.6	3.6	600	12	US-11-123-896-256	Sequence 256, App
29	74.6	3.6	755	7	US-10-973-115B-153	Sequence 153, App
30	74.6	3.6	755	8	US-10-131-826A-153	Sequence 153, App
31	74.6	3.6	3082	9	US-11-096-568A-2443	Sequence 2443, App
32	74.4	3.5	600	12	US-11-136-527-7965	Sequence 7965, App
33	74.4	3.5	625	9	US-11-096-568A-2599	Sequence 2599, App
34	74.4	3.5	804	12	US-11-091-883-265	Sequence 265, App
35	74.4	3.5	2183	12	US-11-000-668-485	Sequence 485, App
36	74.4	3.5	2924	12	US-11-136-527-3869	Sequence 3869, App
37	74.4	3.5	3501	7	US-10-973-115B-37	Sequence 37, App1
38	74.4	3.5	3501	8	US-10-131-826A-37	Sequence 37, App1
39	74	3.5	850	9	US-11-096-568A-3185	Sequence 3185, App
40	74	3.5	1358	9	US-11-096-568A-2642	Sequence 2642, App
41	74	3.5	2537	12	US-11-102-978-8	Sequence 8, App1
42	73.8	3.5	799	12	US-11-195-459-3	Sequence 3, App1
43	73.8	3.5	807	9	US-11-096-568A-706	Sequence 706, App
44	73.8	3.5	1660	9	US-11-096-568A-2748	Sequence 2748, App
45	73.8	3.5	2476	7	US-10-973-115B-489	Sequence 489, App

ALIGNMENTS

RESULT 1						
US-11-021-492-430						
Sequence 430, Application US/11021492						
Publication No. US20060031947A1						
GENERAL INFORMATION:						
APPLICANT: Abidin, Alejandro						
APPLICANT: Zambowicz, Brian						
TITLE OF INVENTION: Novel Mutated Mammalian Cells and						
FILE REFERENCE: LEX-0368-USA						
CURRENT APPLICATION NUMBER: US/11/021,492						
PRIOR FILING DATE: 2004-12-23						
PRIOR APPLICATION NUMBER: US 60/307,670						
NUMBER OF SEQ ID NOS: 698						
SOFTWARE: FastSeq for Windows Version 4.0						
SEQ ID NO 430						
LENGTH: 516						
TYPE: DNA						
ORGANISM: Mus musculus						
FEATURE:						
NAME/KEY: misc feature						
LOCATION: 40, 156, 175, 190, 216, 291, 344, 370, 431						
OTHER INFORMATION: n = A,T,C or G						
US-11-021-492-430						
Query Match						
Best Local Similarity 83.9%; Pred. No. 7.2e-35;						
Matches 433; Conservative 0; Mismatches 80; Indels 3; Gaps 3;						
17.1%; Score 357.4; DB 9; Length 516;						
QY	429	GGACATGCTCCATAGAGATTTCAGAGTACCAAGAACTCAACGAGTCTTGATGA	488			
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QY	549	CGTGAATATATGAA-CGCAACTTAAAGATCAACAGACACAGATTAATTT-A	606			
DB	121	TGTAAAGTATGAAACCGTACTCTTAAAGATATTAAGACAGACAGATTAATTTA	180			

QY 607 GAGCTTTGAGAAATCCCAAGC-TGATTTGAAGAATCAGAAAGAAAGCAAGAG 665
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 QY 666 CCGAAACGCACTTCAATATGAAACAAAGAAATTTGATATGTGAGACCGTTACTTCTG 725
 DB 241 ACGAAACGCACTTCAATATGAGACACAAAGAAATTTGATATGTGAGACCGTCTG 300
 QY 726 TCAGATGAATTCAGAAATTCATTCAGATGTTGCAAGAGCGCTCTCTGAAAGAA 785
 DB 301 CCGAGTGAATTCAGAAATTCATTCAGATGTTGCAAGAGCGCTCTCTGAAAGAA 360
 QY 786 GAGGCGCTTCT 845
 DB 361 AAGGCGCTTCT 420
 QY 846 TCATTTACAGTCTGCAAGACTGATGATTCAGAGTCTCTCTCTCTCTCTCTCTCT 905
 DB 421 TCACATGCAAGTCTGCAAGACTGATGATTCAGAGTCTCTCTCTCTCTCTCTCT 480
 QY 906 TGATGCCATCAAGTCCGAGAGAAATCATGAATAT 941
 DB 481 TGATGCCACAAAGTCCGAGAGAAATCATGAATAT 516

RESULT 2

US-11-128-061-1100
 ; Sequence 1100, Application US/11128061
 ; Publication No. US20060003958A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Melville, Mark W.
 ; APPLICANT: Charlebois, Timothy S.
 ; APPLICANT: Mounts, William M.
 ; APPLICANT: Hann, Louane E.
 ; APPLICANT: Sinacore, Martin S.
 ; APPLICANT: Leonard, Mark W.
 ; APPLICANT: Brown, Eugene L.
 ; APPLICANT: Miller, Christopher P.
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
 ; FILE REFERENCE: 01997.027701
 ; CURRENT FILING DATE: 2005-05-11
 ; PRIOR APPLICATION NUMBER: US 60/570,425
 ; PRIOR FILING DATE: 2004-05-11
 ; NUMBER OF SEQ ID NOS: 7285
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 1100
 ; LENGTH: 2078
 ; TYPE: DNA
 ; ORGANISM: Cricetinae
 US-11-128-061-1100

Query Match 12.7%; Score 266.6; DB 12; Length 2078;
 Best Local Similarity 59.2%; Pred. No. 5.3e-24;
 Matches 455; Conservative 0; Mismatches 314; Indels 0; Gaps 0;

QY 230 CCGAGAGGTGAACCGGCTCAGGAGAGACCTACCGGATGTATGAAACAGTTCAATC 289
 DB 77 CGGAGAGATGACCGGCTCAGGAGAAATGTCTATAGACCATGAGAGAGTCAACC 136
 QY 230 CTGGGCTGGAAATTTAATMAAATTGAGGAGAAATTTAAGAAAGCTGTAAAGCTATGA 349
 DB 137 CGAGCTCGGAAATTTAATMAAATTGAGGAGAAATTTAAGAAAGCTGTAAAGCTATGA 196
 QY 350 TCCTGCGAGGAAACCTTCTACATGAGTGGCCAAAGTTCGTGATTTGCCACTGGGT 409
 DB 197 CTTGCTGCGCAAAAGGCTATTTGATGCTCTGTAAAGATGGGAGGCTGGCAGGAGA 256
 QY 410 CCCCCGTGCACTGAGCAATGAGCATGTCTCATAGAGATTTCAAGTACCCCAAGAAAC 469
 DB 257 GCGAGGCTCTTAAGAAATTTGGGAGAGTCTCTTCCAGATGGCCGAGAGTCCACCGGAGA 316

QY 470 TCAACGAGTCTTGATGAAATTTTAAAAATTCACAAAGAGATTAATCCATGAGCTGG 529
 DB 317 TCCACAACTGAGAGAGATGCTAAAGTCTTTTCAAAAGAGTGTCTCACAGAGCTGG 376
 QY 530 AGAAGAGATGAACTTGAAGTGAATATATGAAACGCAACTCTTAAAAAGATTCACAAAG 589
 DB 377 AACAGAGATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 436
 QY 590 AACACAAAGATTAATTAAGTCTTTGAGAAATTCACAAAGTGAAGTGAAGTGAAGTGAAG 649
 DB 437 AGCAGAGAGAGAGAGAGATGCTTGAAGAGTCTTGAAGTGAAGTGAAGTGAAGTGAAG 496
 QY 650 GGAAG 709
 DB 497 AGAAG 556
 QY 710 AGACGTTATCTTCTGATGAGTGAATTCAGAAATTCATTCAGATGTTGCAAGAGAG 769
 DB 557 ATGCCATGAGCAAG 616
 QY 770 CTGCTGTTGAAG 829
 DB 617 CACTACAG 676
 QY 830 ACCACATCATTTATTAATCACTTACAGTCTGCAAGACTGAATTCAGAGTCTGCTGGT 889
 DB 677 AGAATCTGCTGCTTACACTTCAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 736
 QY 890 GCGAG 949
 DB 737 GCGAG 796
 QY 950 AATTAAG 998
 DB 797 AGATGAG 845

RESULT 3

US-11-128-049-1100
 ; Sequence 1100, Application US/11128049
 ; Publication No. US20060010513A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Melville, Mark W.
 ; APPLICANT: Charlebois, Timothy S.
 ; APPLICANT: Mounts, William M.
 ; APPLICANT: Hann, Louane E.
 ; APPLICANT: Sinacore, Martin S.
 ; APPLICANT: Leonard, Mark W.
 ; APPLICANT: Brown, Eugene L.
 ; APPLICANT: Miller, Christopher P.
 ; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR
 ; FILE REFERENCE: 01997.027700
 ; CURRENT FILING DATE: 2005-05-11
 ; PRIOR APPLICATION NUMBER: US 60/570,425
 ; PRIOR FILING DATE: 2004-05-11
 ; NUMBER OF SEQ ID NOS: 7285
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 1100
 ; LENGTH: 2078
 ; TYPE: DNA
 ; ORGANISM: Cricetinae
 US-11-128-049-1100

Query Match 12.7%; Score 266.6; DB 12; Length 2078;
 Best Local Similarity 59.2%; Pred. No. 5.3e-24;
 Matches 455; Conservative 0; Mismatches 314; Indels 0; Gaps 0;

QY 230 CCGAGAGGTGAACCGGCTCAGGAGAGACCTACCGGATGTATGAAACAGTTCAATC 289
 DB 77 CGGAGAGATGACCGGCTCAGGAGAAATGTCTATAGACCATGAGAGAGTCAACC 136

Publication No. US20060010513A1
GENERAL INFORMATION:
APPLICANT: Melville, Mark W.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Hann, Louane E.
APPLICANT: Sinacore, Martin S.
APPLICANT: Leonard, Mark W.
APPLICANT: Brown, Eugene L.
APPLICANT: Miller, Christopher P.
TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR
FILE REFERENCE: 01997.027700
CURRENT APPLICATION NUMBER: US/11/128,049
CURRENT FILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US 60/570,425
PRIOR FILING DATE: 2004-05-11
NUMBER OF SEQ ID NOS: 7285
SOFTWARE: PatentIn version 3.3
SEQ ID NO 4742
LENGTH: 1400
TYPE: DNA
ORGANISM: Cricetinae
US-11-128-049-4742
Query Match
Best Local Similarity 54.5%; Pred. No. 0.17; Length 1400;
Matches 186; Conservative 0; Mismatches 146; Indels 9; Gaps 1;
QY 1193 TACAGGATCAAGTTTCGTTGCAACGGAAGTGAATGTAAGAAAGCAAGAAAGTGAAGA 1252
DB 467 TCGACAGTTCAAGCTCATTGAGGAGCTGGCTGAGAAAGTAAAGCCGAGTAAAG 526
QY 1253 CCATCTTCCGCACTGCGGGCTCCAAAGAGCTTACTGACCTTGGACAGGGAGATG 1312
DB 527 CCATTTCTCCCAAGCGGCTGAGCAAGCAAGCACTGCTGAGCTTCAAGAGAGGAGACC 586
QY 1313 TCATCAGCTGCTCATCCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1372
DB 587 TCATCAGCTGCTCATCCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 646
QY 1373 CCAAGGCGAGGGGTGTTCCCTGCTGTAACAGAAAGTTGCTGGAAGAAAGTGAAGAG 1432
DB 647 CCAAAATGCGGGGCTGTTCTTCTCTCACTGCGGGCTGAGCAAGTGAAGAGAGTGTG 706
QY 1433 AAGCATGACCGTCCGAG 1492
DB 707 ACAGTTGACATG-----AGCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 757
QY 1493 TGTCTGAAATAGCAGTGTGTCATCCCGCCACCCGAGTAC 1533
DB 758 TTCTGACAG 798
RESULT 12
US-10-996-217A-8/C
Sequence 8, Application US/10996217A
Publication No. US20050286561A1
GENERAL INFORMATION:
APPLICANT: Revivacor, Inc.
APPLICANT: Wells, Kevin
TITLE OF INVENTION: Use of Interfering RNA in the Production of Transgenic Animals
FILE REFERENCE: 10785.105070 REV 1015 US
CURRENT APPLICATION NUMBER: US/10/996,217A
CURRENT FILING DATE: 2004-11-22
PRIOR APPLICATION NUMBER: 60/523,938
PRIOR FILING DATE: 2003-11-21
NUMBER OF SEQ ID NOS: 272
SOFTWARE: PatentIn version 3.2
SEQ ID NO 8
LENGTH: 2036
TYPE: DNA
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-996-217A-8
Query Match
Best Local Similarity 73.7%; Pred. No. 0.16; Length 2036;
Matches 101; Conservative 0; Mismatches 36; Indels 0; Gaps 0;
QY 1960 ACCAGCTGAGCCATTTAAATATTTCTCTATTCGTTCAAGAAACAGTAACTGTGT 2019
DB 668 ACCATTATCCCATTTAGGATATTTCTGTTCCCTTCAGAGAACTAATTTTGTAG 609
QY 2020 TTCAATCTTTAAATATTTCTCTATTCGTTCAAGAAACAGTAACTGTGT 2079
DB 608 GTAAATCTTTAAATATTTCTCTATTCGTTCAAGAAACAGTAACTGTGT 549
QY 2080 AAAAAAAAAAAAAAAAAA 2096
DB 548 AAAAAAAAAAAAAAAAAA 532
RESULT 13
US-11-136-527-7203
Sequence 7203, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William M.
TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR FILING DATE: 2005-05-26
NUMBER OF SEQ ID NOS: 362830
SOFTWARE: PatentIn version 3.2
SEQ ID NO 7203
LENGTH: 1400
TYPE: DNA
ORGANISM: Rattus norvegicus
US-11-136-527-7203
Query Match
Best Local Similarity 65.1%; Pred. No. 0.2; Length 1400;
Matches 82; Conservative 20; Mismatches 24; Indels 0; Gaps 0;
QY 1971 CATTAAATATTTCTCTATTCGTTCAAGAAACAGTAACTGTTCATCTTTA 2030
DB 1254 CTTTGAAATATTCGTTCTGTTTTCATTAAGTGAAGTAACTAATTTTAAATTTTAA 1313
QY 2031 AAAAAAAAAAAAAAAAAA 2090
DB 1314 AAAAAAAAAAAAAAAAAA 1373
QY 2091 AAAAAA 2096
DB 1374 AAAAAA 1379
RESULT 14
US-11-136-527-3107
Sequence 3107, Application US/11136527
Publication No. US20050287570A1
GENERAL INFORMATION:
APPLICANT: Wyeth
APPLICANT: Mounts, William M.
TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR FILING DATE: 2005-05-26
NUMBER OF SEQ ID NOS: 362830

Job time : 2598 secs

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; SOFTWARE: Patentin version 3.2
; SEQ ID NO 3107
; LENGTH: 1967
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3107
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Query Match          3.8%; Score 78.8; DB 12; Length 1967;
Best Local Similarity 65.1%; Pred. No. 0.19; 24; Indels 0; Gaps 0;
Matches 82; Conservative 20; Mismatches 24; Indels 0; Gaps 0;
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QY 1971 CATTAAATATTTCTTCCTTCAAGTAACTGTTCAATCTTAA 2030
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DB 1821 CTTTGAAACATGCTTCTGTTTTCATTAAGTGAACCTAAT 1880
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QY 2031 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2090
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DB 1881 MAMMMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAM 1940
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QY 2091 AAAAAA 2096
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DB 1941 AAAAAA 1946
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RESULT 15

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US-10-689-742-163
; Sequence 163, Application US/10689742
; Publication No. US20050250180A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M
; APPLICANT: Lavallee, Edward R
; APPLICANT: Racie, Lisa A
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Spaulding, Vikki
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000091.10
; CURRENT APPLICATION NUMBER: US/10/689,742
; PRIOR FILING DATE: 2003-10-22
; PRIOR APPLICATION NUMBER: 09/746,783
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 163
; LENGTH: 2120
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-689-742-163
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Best Local Similarity 59.5%; Pred. No. 0.24; 90; Indels 0; Gaps 0;
Matches 132; Conservative 0; Mismatches 90; Indels 0; Gaps 0;
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QY 1875 CTGCTTAAGCAATCATGCTTCTCTGTTTCAAGTAGTTGGTTGACAAATTTCTGCTTT 1934
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DB 1887 CTATGTAATATAAAGACTAGCTGCTTGTGAGGAAATGTTGTGCAAAATTTTCTCTCT 1946
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QY 1935 AAGATTAATGAGTAATAGCTTAATGACCAAGCTCAGCCATTAAATATTTCTTCTAAT 1994
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DB 1947 AATGATATATAGTGTAAATGATTAATAAATCTTCAGAAATTAATATTCCTTTGTGAC 2006
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QY 1995 CTGTTCAAGAAACAGTAACCTTGTTCAATCTTTAAATAAAAAAAAAAAAAAAAAAAAAA 2054
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DB 2007 TTTTGGAAACATATATATCTTTGTAATCTGTGCTTAATAAAAAAAAAAAAAAAAAAAAAA 2066
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QY 2055 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2096
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DB 2067 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2108
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Search completed: March 20, 2006, 14:27:56

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:55 ; Search time 381 Seconds
(without alignments)
9778.922 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096
Sequence: 1 cctccctgcctccgaagaa.....aaaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	259.6	12.4	2080	2 US-08-878-563A-2	Sequence 2, Appl
2	259.6	12.4	2080	3 US-09-270-117-2	Sequence 2, Appl
3	259.6	12.4	2080	3 US-09-046-572-2	Sequence 2, Appl
4	241.6	11.5	2328	3 US-09-046-572-4	Sequence 4, Appl
5	82.8	4.0	997	3 US-09-907-794A-376	Sequence 376, App
6	82.8	4.0	997	3 US-09-905-125A-376	Sequence 376, App
7	82.8	4.0	997	3 US-09-902-775A-376	Sequence 376, App
8	82.8	4.0	997	3 US-09-906-700-376	Sequence 376, App
9	82.8	4.0	997	3 US-09-903-603A-376	Sequence 376, App
10	82.8	4.0	997	3 US-09-904-920A-376	Sequence 376, App
11	82.8	4.0	997	3 US-09-909-064-376	Sequence 376, App
12	82.8	4.0	997	3 US-09-905-381A-376	Sequence 376, App
13	82.8	4.0	997	3 US-09-906-618-376	Sequence 376, App
14	82.8	4.0	997	3 US-09-906-646-376	Sequence 376, App
15	82.8	4.0	997	3 US-09-902-736A-376	Sequence 376, App
16	82.8	4.0	997	3 US-09-906-722A-376	Sequence 376, App
17	82.8	3.9	1570	3 US-10-012-231A-291	Sequence 291, App
18	81.2	3.9	1570	3 US-10-015-389A-291	Sequence 291, App
19	81.2	3.9	1570	3 US-10-006-768A-291	Sequence 291, App
20	81.2	3.9	1570	3 US-10-015-671A-291	Sequence 291, App
21	81.2	3.9	1570	3 US-10-015-393A-291	Sequence 291, App
22	81.2	3.9	1570	3 US-10-011-833A-291	Sequence 291, App
23	81.2	3.9	1570	3 US-10-006-041A-291	Sequence 291, App
24	81.2	3.9	1570	3 US-10-006-041A-291	Sequence 291, App

25	81.2	3.9	1570	3 US-10-012-064A-291	Sequence 291, App
26	80.8	3.9	1687	3 US-09-907-907A-38	Sequence 38, Appl
27	80.2	3.8	1474	3 US-08-821-994-64	Sequence 64, Appl
28	79	3.8	2550	9 5258287-23	Patent No. 5258287
29	78.8	3.8	1172	2 US-07-945-288-9	Sequence 9, Appl
30	78.8	3.8	1172	2 US-08-462-831-9	Sequence 9, Appl
31	78.8	3.8	1172	2 US-08-461-809-9	Sequence 9, Appl
32	78.8	3.8	1172	2 US-08-461-441-9	Sequence 9, Appl
33	78.8	3.8	1172	6 PCT-US93-08518-9	Sequence 9, Appl
34	78.6	3.8	396	3 US-09-640-173-10	Sequence 10, Appl
35	78.6	3.8	396	3 US-09-640-173-53	Sequence 53, Appl
36	78.6	3.8	396	3 US-09-713-550-10	Sequence 10, Appl
37	78.6	3.8	396	3 US-09-713-550-53	Sequence 53, Appl
38	78.6	3.8	396	3 US-09-825-294-10	Sequence 10, Appl
39	78.6	3.8	396	3 US-09-825-294-53	Sequence 53, Appl
40	78.6	3.8	396	3 US-09-970-966-53	Sequence 53, Appl
41	78.6	3.8	396	3 US-09-970-966-53	Sequence 53, Appl
42	78.6	3.8	396	3 US-09-970-966-53	Sequence 53, Appl
43	78.2	3.7	985	3 US-09-832-129-19	Sequence 19, Appl
44	78.2	3.7	985	3 US-09-832-129-32	Sequence 32, Appl
45	78	3.7	2276	3 US-09-205-258-183	Sequence 183, App

ALIGNMENTS

RESULT 1
US-08-878-563A-2
Sequence 2, Application US/08878563A
Patent No. 5891674
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Lal, Preeti
APPLICANT: Shah, Purvi
TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/878,563A
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0323 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2080 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: BRSTNCT04
CLONE: 918158
US-08-878-563A-2
Query Match 12.4%; Score 259.6; DB 2; Length 2080;

Best Local Similarity 59.2%; Pred. No. 1.6e-48;
Matches 442; Conservative 0; Mismatches 304; Indels 0; Gaps 0;

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QY 230 CCGAGAGGTGAACCGGCTACGAGACACCTACCGGAATGTTATGGAACAGTTCAATC 289
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DB 112 CAGAGAGATGACACCGGCTACGAGAAATGTTATTAAGACCATCATGAGAGAGTTCAAC 171
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QY 290 CTGGGGCTGGCAATTTAATAACCTGGGGAAAAATTAAGAAAGCTGAAGCTATGA 349
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DB 172 CTAGCTCCGGAACCTTATCGCCATGGGAAAGATTAAGAAAGGCACTGGCAGGTGTGA 231
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QY 350 TCCTGGCAGAAAAAGCTTACATGATGAGTGGCAAGATCGTGAATTCAGTGGT 409
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DB 232 CGTATGAGCCAAAGCTTACTTTGAGCCCTGGTGAAGATGGGGAGCTGGCCAGCAGA 291
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||
QY 410 CCCCCGTGTCACTGAACCTGGGACATCTCTCATAGAGATTTCAAGTACCAGAAAC 469
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DB 292 GCCAGGGCTCCAAAGAACTCGAGACGTTCTTCCAGATGGCTGAAGTCCACAGGAGA 351
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DB 412 AGCAGAAAGTGAAGCTGATCCAGAGTATCTGAAGTGTGGGCTAAAGAAATACAGACTG 471
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QY 590 AACACAGATTAATTAATGAGCTTTTGAAGAAATCCCAAGCTGAGTTGAAGAAATCAAG 649
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QY 650 GGAAGAGCCAAAGAGCCGAAACGCACTCAATATATGAACCAAGAAATGAGTATGTGG 709
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DB 532 AGAAGAGCCAGGAGCAAGAAATCTTGAAGATCTGGACAGAGAGCTGACATGATCATG 591
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DB 592 ACCCCATCAGCAACAGAGGCGAGCTGAGAAATATGATGTCGAGCGGCTAACAGACG 651
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QY 770 CTCTGCTTGAAGAGAGGCGCTTCTGCTTCTGCTTGAATACCACTGTCGCTTTCGCA 829
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QY 830 ACCACATACATTAATTAATCACTTACAGTCTGACAGAACTAGTAATTCAGAGCTGCTGGT 889
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DB 712 AGAAGTCCGGGCTACCACTCCAGAGGCAAGAGCTGCTCCGCAAGAGCTGCTGCTGT 771
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QY 890 GGCAGAGAGCTGTGTGATGATCCATCAAGTGCAGAGAAATCATGATATGATGAG 949
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QY 950 AATTAAGAGCCCAAGCTCTTACCCCG 975
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DB 832 AGGTGGCCAGCAACGGCGCACCTCTC 857
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```

RESULT 2

US-09-270-117-2

Sequence 2, Application US/09270117

Patent No. 6265550

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Lal, Preeti

APPLICANT: Shah, Puri

TITLE OF INVENTION: INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/270,117

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/878,563

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0323 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 2080 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: BRSTNOT04

CLONE: 918158

US-09-270-117-2

Query Match 12.4%; Score 259.6; DB 3; Length 2080;
Best Local Similarity 59.2%; Pred. No. 1.6e-48;
Matches 442; Conservative 0; Mismatches 304; Indels 0; Gaps 0;

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DB 112 CAGAGAGATGACACCGGCTACGAGAAATGTTATTAAGACCATCATGAGAGAGTTCAAC 171
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QY 290 CTGGGGCTGGCAATTTAATAACCTGGGGAAAAATTAAGAAAGCTGAAGCTATGA 349
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DB 172 CTAGCTCCGGAACCTTATCGCCATGGGAAAGATTAAGAAAGGCACTGGCAGGTGTGA 231
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DB 232 CGTATGAGCCAAAGCTTACTTGAAGCCCTGATGAAAGTGGGAGACTGACAGCAGA 291
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QY 410 CCCCCGTGTCACTGAACCTGGGACATCTCTCATAGAGATTTCAAGTACCAGAAAC 469
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DB 292 GCCAGGGCTCCAAAGAACTGGAGACGTTCTTCCAGATGCTGAAGTCCACAGGAGA 351
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QY 470 TCAACGAGAGCTTGTATGAAAAATTTTAAAAATTCACAAAGAGATTATCCATGAGCTGG 529
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DB 352 TCCAGATTCAGCTGGAAGAAATGTGAAGTCTTTTCAACAGAGCTGTTACGAGCTGG 411
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DB 412 AGCAGAAAGTGAAGCTGATCCAGAGTATCTGAAGTGTGGCTTAAGAAATACCAAGCTG 471
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    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||
DB 472 AGCAAGAGAGCAAGAGCGAGCCCTGAGCAAGTGTCAAGCTGAGCTTAAGAGAGCTTCGGA 531
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QY 650 GGAAGAGCCAAAGAGCCGAAACGCACTCAATATATGAACCAAGAAATGAGTATGTGG 709
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DB 532 AGAAGAGCCAGGAGCAAGAAATCTTGAAGATCTGGACAAAGAGCTGACATGATCATG 591
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||
QY 710 AGACCGTTACTTCTCGTCAAGTGAATTCAGAAATTCATTCAGATGTTGCAAGAG 769
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||
DB 592 ACCCCATCAGCAACAGAGGCGAGCTGAGAAATTAAGTGTGACAGGCTACCAAGACG 651
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||
QY 770 CTCTGCTTGAAGAGAGGCGCTTCTGCTTCTGCTTGAATACCACTGTCGCTTTCGCA 829
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||
DB 652 CACTGACAGAGAGTGAAGGCGCTTCTGCTTCTGCTTGAAGAGCAAGTGGCGCTGACCA 711
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||

```


APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0323-1 CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-845-4166
TELEFAX: 650-845-4166
INFORMATION FOR SRO ID NO.: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2328 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: ADRETTUT05
CLONE: 2493150
US-09-046-572-4

Query Match 11.5%; Score 241.6; DB 3; Length 2328;
Best Local Similarity 58.0%; Pred. No. 1.9e-44;
Matches 427; Conservative 0; Mismatches 309; Indels 0; Gaps 0;
QY 240 GAACCGGCTCAGGAGCACTACCGGAATGTTATGAAACGTTCACTCTGGGCTGCG 299
DB 278 GAACCTTCGTGGAGAGTTGGGAGGAGCATCATGAGACAGTTCAACCTAGCCTCCG 337
QY 300 AAATTTAATTAACCTGGGGAAAAATTGTGAAAGCTGTAAAGCTATGATCTGGCAGG 359
DB 338 GAACCTTCATGCGCATGGGGAAGAAATTCAGAAAGGCACTGGCAGGTGTGACGTATGAGC 397
QY 360 AAAAGCTACTACGATGAGGCGCAAGATCGGAGATTGCCACTGGGTCCTCCGCTGTC 419
DB 398 CAAAGGCTACTTGGACCCCTGCTGAGATGGGGAGCTGGCCAGGAGCCAGGAGCTC 457
QY 420 AACTGAACTGGGACATGCTCTCATAGATTTCAAGTACCACAAAGAACTCAACGAGAG 479
DB 458 CAAAGAACTCGAAGACGTTCTCTCCAGATGGCTGAAGTCCACAGGACAGATCCAGATCA 517
QY 480 TCTGTATGAAATTTTAAAAATTTCCCAAGAGATTTATCATGAGCTGGAGAAAGAT 539
DB 518 GCTGGAAGAAATCTGAAGTCTTTTCAACAGAGCTGCTTACGAGCTGGAGCAAGGT 577
QY 540 AGAAGCTGAGTGAATATATATGAACGCACTTAAAAAGATACCAACAGAACAGAA 599
DB 578 GGAAGCTGAGTCCAGATCTGAAGTCTGGCTGAGAAATACCAAGCTGAGCAAGAG 637
QY 600 TAAATTAAGTCTTTGGAGAAATCCAGAGTGAAGTGAAGAGATCAGAAAGAAACCA 659
DB 638 CAAAGGAGCGCCCTGGACAAGTGTCAAGGCTGAGCTGAAGAGCTTGGAAAGAGCA 697
QY 660 AGAAGCCGAAAGCGCATCTCAATATATGAACCAAGAAATGAGATGTGAGACCGTTAC 719
DB 698 GGGGAGAGAAATCTTAGAAGTACTGGACAGGAGCTCAAGTCACTGACGCAATCAG 757
QY 720 TTCTGTCAGAGTGAATTCAGAAATTCATTCAGATGTTGCAAAAGAGCTGCTGTTGA 779
DB 758 CAAACAGCAGGCGAGCTGGAGAAATTAAGTGTCCGAGGCTACCAAGACCGCACTGACAGA 817
QY 780 AGAAGAGGCGCTTCTGCTTTCTGTGTATGAACACTGTGGCTTTGCAACCAACATACA 839
DB 818 GGAAGCGAGCGCTTCTGCTTCTGCTGAGAGAGCAATGGCGGCTGCAAGAACTCGCG 877
QY 840 TTATATCACTTACAGTCTGAGAACTCAATCTCAAGCTGCTGGTGGGAGAGAC 899
DB 878 GGCCTACACTTCAAGGCGAAGAGAGTGTGCGCAGAACTGCGGTGTGGCAACAGGC 937
QY 900 CTGTGTGATGATCAATGAGTCCAGAGAAATCATGATATGATCAAGAAATTAAGAC 959
DB 938 CTGTGCGGAGCCCAAGCAAGATCCGAGGCGCGGTGACACTATGACAGAGGTGGCAG 997
QY 960 CCAAGCCTTACCCCC 975

Db 998 CAAAGGCGGCGGAGCTC 1013
RESULT 5
US-09-907-794A-376
Sequence 376, Application US/09907794A
Patent No. 6635468
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Godowski, A.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT FILING DATE: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05

NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-907-794A-376

Query Match
Best Local Similarity 81.4%; Score 82.8; DB 3; Length 997;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1979 ATATTTCTTCCTATCTGTTCAAGAAAGTAACCTGTTCAATCTTTAAAAA 2038
DB 869 ATAGTATTTGTTACTGATCAATTAATAATAGTTTAAATGTTAAAAA 928
QY 2039 AA 2096
DB 929 AA 986

RESULT 6
US-09-905-125A-376
Sequence 376, Application US/09905125A
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,125A
PRIOR FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05

PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
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PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-905-125A-376

Query Match
Best Local Similarity 81.4%; Score 82.8; DB 3; Length 997;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1979 ATATTTCTTCCTATCTGTTCAAGAAAGTAACCTGTTCAATCTTTAAAAA 2038
DB 869 ATAGTATTTGTTACTGATCAATTAATAATAGTTTAAATGTTAAAAA 928
QY 2039 AA 2096
DB 929 AA 986

RESULT 7
US-09-902-775A-376
Sequence 376, Application US/09902775A
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,775A
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22

PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-902-775A-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7.4e-09; Indels 0; Gaps 0;
Matches 96; Conservative 0; Mismatches 22;
QY 1979 ATATTTCCTTCATCTGTTCAAGAAACAGTAACTTGTTCAATCTTTAAAAA 2038
DB 869 ATAGATTGTTCTCTGATACAAATTAAGTATTAAATGTTAAAAA 928
QY 2039 AA 2096
DB 929 AA 986

RESULT 8
US-09-906-700-376
Sequence 376, Application US/09906700
Patent No. 6723535
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gueney, Austin L.
APPLICANT: Hillan, Kenneth, J.

APPLICANT: Kijavín, Ivar U.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OR INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,700
CURRENT FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-906-700-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7.4e-09; Indels 0; Gaps 0;
Matches 96; Conservative 0; Mismatches 22;
QY 1979 ATATTTCCTTCATCTGTTCAAGAAACAGTAACTTGTTCAATCTTTAAAAA 2038
DB 869 ATAGATTGTTCTCTGATACAAATTAAGTATTAAATGTTAAAAA 928
QY 2039 AA 2096
DB 929 AA 986

RESULT 9
US-09-903-603A-376
Sequence 376, Application US/09903603A
Patent No. 6767995
GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: GNE.16182C12
CURRENT APPLICATION NUMBER: US/09/903,603A
PRIOR FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-903-603A-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. NO. 7.4e-09;

Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
QY 1979 ATATTTCCTCATCTGTTCAAGAAACAGTAACTTGTTCAATCTTTAAAAAAA 2038
Db 869 ATAACTATTTCCTCATCTGATACAAATATAATAGTCTTTAAATCTTAAAAAAA 928
QY 2039 AAA 2096
Db 929 AAA 986

RESULT 10
US-09-904-920A-376
Sequence 376 Application US/09904920A
Patent No. 6806352
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,920A
PRIOR FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-904-920A-376

Query Match 4.0%; Score 82.8; DB 3; Length 997;
Best Local Similarity 81.4%; Pred. No. 7.4e-09;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Qy 1979 ATATTTCTTCCTTCATGTTCAAGAAACAGTAACTGGTTTCATCTTTAAAAAAA 2038
Db 869 ATAGTATTCTTCTCTGATACAAATATAAGTTTAAATGTTAAAAAAA 928
Qy 2039 AA 2096
Db 929 AA 986

RESULT 11
US-09-909-064-376
Sequence 376, Application US/09909064
Patent No. 6818449

GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,064
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944

PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
TYPE: DNA
ORGANISM: Homo Sapien
US-09-909-064-376

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Best Local Similarity 81.4%; Pred. No. 7.4e-09;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

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Db 869 ATAGTATTCTTCTCTGATACAAATATAAGTTTAAATGTTAAAAAAA 928
Qy 2039 AA 2096
Db 929 AA 986

RESULT 12
US-09-905-381A-376
Sequence 376, Application US/09905381A
Patent No. 6818746

GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.

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: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: 10466-14
: CURRENT APPLICATION NUMBER: US/09/905,381A
: CURRENT FILING DATE: 2001-07-13
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
: PRIOR APPLICATION NUMBER: US 60/145,698
: PRIOR FILING DATE: 1999-07-26
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: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: PCT/US99/30911
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US99/30999
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US00/00219
: NUMBER OF SEQ ID NOS: 423
: SEQ ID NO 376
: LENGTH: 997
: TYPE: DNA
: ORGANISM: Homo Sapien
US-09-905-381A-376

Query Match
Best Local Similarity 81.4%; Score 82.8; DB 3; Length 997;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

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DB 869 ATAGATTTGTTACTCTGATACAAATATAAAGTAGTTTAAATGTTAAAAAAA 928
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: Sequence 376, Application US/09906618
: Patent No. 6828146
: GENERAL INFORMATION:
: APPLICANT: Genentech, Inc.
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Baton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
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: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, A.
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth, J.
: APPLICANT: Kijavyn, Ivar J.
: APPLICANT: Mather, Jennie P.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William, I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: 10466-14
: CURRENT APPLICATION NUMBER: US/09/906,618
: CURRENT FILING DATE: 2001-07-16
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
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: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US99/30999
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US00/00219
: NUMBER OF SEQ ID NOS: 423
: SEQ ID NO 376
: LENGTH: 997
: TYPE: DNA
: ORGANISM: Homo Sapien
US-09-906-618-376

Query Match
Best Local Similarity 81.4%; Score 82.8; DB 3; Length 997;
Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1979 ATATTTCTCTCTATTCGTTCAGAAACAGTAACCTGGTTCAATCTTTAAAAAAA 2038
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DB 869 ATAGATTTGTTACTCTGATACAAATATAAAGTAGTTTAAATGTTAAAAAAA 928
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1  LENGTH: 997
2  TYPE: DNA
3  ORGANISM: Homo Sapien
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7  Best Local Similarly 81.4%; Pred. No. 7,4e-09;
8  Matches 96; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
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11 Db 869 ATAGATTTTGTTCTCTGCTGATACAAATAAAAATAGAGTTTAAATGTTAAAAAAA 928
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13 Db 929 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 986
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15 RESULT 15
16 US-09-904-462-376
17 Sequence 376, Application US/09904462
18 Patent No. 6878807
19 GENERAL INFORMATION:
20 APPLICANT: Genentech, Inc.
21 APPLICANT: Ashkenazi, Avi
22 APPLICANT: Botstein, David
23 APPLICANT: Desnovers, Luc
24 APPLICANT: Eaton, Dan L.
25 APPLICANT: Ferrara, Napoleon
26 APPLICANT: Filvaroff, Ellen
27 APPLICANT: Fong, Sherman
28 APPLICANT: Gao, Wei-Qiang
29 APPLICANT: Gerber, Hanspeter
30 APPLICANT: Gertschen, Mary E.
31 APPLICANT: Goddard, A.
32 APPLICANT: Godowski, Paul J.
33 APPLICANT: Grimaldi, Christopher J.
34 APPLICANT: Gurney, Austin L.
35 APPLICANT: Hillan, Kenneth, J.
36 APPLICANT: Kijavlin, Ivar J.
37 APPLICANT: Mather, Jennie P.
38 APPLICANT: Pan, James
39 APPLICANT: Paoni, Nicholas F.
40 APPLICANT: Roy, Margaret Ann
41 APPLICANT: Stewart, Timothy A.
42 APPLICANT: Tumas, Daniel
43 APPLICANT: Williams, P. Mickey
44 APPLICANT: Wood, William, I.
45 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
46 FILE REFERENCE: 10466-14
47 CURRENT APPLICATION NUMBER: US/09/904,462
48 PRIOR FILING DATE: 2001-07-13
49 PRIOR APPLICATION NUMBER: 09/665,350
50 PRIOR FILING DATE: 2000-09-18
51 PRIOR APPLICATION NUMBER: PCT/US00/04414
52 PRIOR FILING DATE: 2000-02-22
53 PRIOR APPLICATION NUMBER: US 60/143,048
54 PRIOR FILING DATE: 1999-07-07
55 PRIOR APPLICATION NUMBER: US 60/145,698
56 PRIOR FILING DATE: 1999-07-26
57 PRIOR APPLICATION NUMBER: US 60/146,222
58 PRIOR FILING DATE: 1999-07-28
59 PRIOR APPLICATION NUMBER: PCT/US99/20594
60 PRIOR FILING DATE: 1999-09-08
61 PRIOR APPLICATION NUMBER: PCT/US99/20944
62 PRIOR FILING DATE: 1999-09-13
63 PRIOR APPLICATION NUMBER: PCT/US99/21090
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65 PRIOR APPLICATION NUMBER: PCT/US99/21547
66 PRIOR FILING DATE: 1999-09-15
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68 PRIOR FILING DATE: 1999-10-05

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1 PRIOR APPLICATION NUMBER: PCT/US99/28214
2 PRIOR FILING DATE: 1999-11-29
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5 PRIOR APPLICATION NUMBER: PCT/US99/28564
6 PRIOR FILING DATE: 1999-12-02
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14 PRIOR FILING DATE: 1999-12-20
15 PRIOR APPLICATION NUMBER: PCT/US00/00219
16 PRIOR FILING DATE: 2000-01-05
17 NUMBER OF SEQ ID NOS: 423
18 SEQ ID NO 376
19 LENGTH: 997
20 TYPE: DNA
21 ORGANISM: Homo Sapien
22 US-09-904-462-376

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

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Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1448.4	69.1	1510	7 US-10-112-944-523	Sequence 533, Ap
5	1216.4	58.0	2120	6 US-10-172-118-1805	Sequence 1805, Ap
6	1216.4	58.0	2120	7 US-10-342-887-1805	Sequence 1805, Ap
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8	1021.2	48.7	1993	9 US-10-450-763-9762	Sequence 9762, Ap
9	594	28.3	625	5 US-10-066-543-481	Sequence 481, Ap
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11	576.2	27.5	641	5 US-10-066-543-990	Sequence 990, Ap
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13	520.8	24.8	539	5 US-10-066-543-321	Sequence 321, Ap
14	488	23.3	511	3 US-09-960-253-83	Sequence 83, Appl
15	470.4	22.4	512	3 US-09-960-253-90	Sequence 90, Appl
16	439	15.7	449	9 US-10-450-763-9759	Sequence 9759, Ap
17	274.8	13.1	439	9 US-10-450-763-9760	Sequence 9760, Ap
18	259.6	12.4	2080	6 US-10-435-324-2	Sequence 2, Appl
19	255.4	12.2	295	3 US-09-867-701-2669	Sequence 2669, Ap
20	241.6	11.5	2328	6 US-10-435-324-4	Sequence 4, Appl
21	240.2	11.5	45698	3 US-09-984-429-344	Sequence 344, Ap
22	227.4	10.8	1445	9 US-10-970-760-1	Sequence 1, Appl
23	216.4	10.3	16181	3 US-09-764-891-1426	Sequence 1426, Ap

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C	35	184	8.8	434	6	US-10-313-669-24	Sequence 24, Appl
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ALIGNMENTS

RESULT 1									
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; Sequence 1, Application US/10801292									
; Publication No. US20050202448A1									
GENERAL INFORMATION:									
APPLICANT: LEE, YI-CHAO									
APPLICANT: YIEN, YI-YEH									
APPLICANT: HUANG, YI-HUEI									
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND									
FILE REFERENCE: THERAPY OF CANCER									
CURRENT APPLICATION NUMBER: US/10/801,292									
CURRENT FILING DATE: 2004-03-15									
NUMBER OF SEQ ID NOS: 21									
SOFTWARE: PatentIn Ver. 3.2									
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ORGANISM: Homo sapiens									
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DB 841 TATTATCACTTACAGTCTGAGAACTAAGTATCCAGGCTCGGTGGGAGAGAGCC 900
QY 901 TGTGTTGATGTCATCAAGTGCAGAGAAATCATGAAATGATCGAAGAAATTAAGACC 960
DB 901 TGTGTTGATGTCATCAAGTGCAGAGAAATCATGAAATGATCGAAGAAATTAAGACC 960
QY 961 CCAAGCTCTACCCCGCTGTGGAATCTCTCAGGCTTCAACCATGATCGAGAGAAAT 1020
DB 961 CCAAGCTCTACCCCGCTGTGGAATCTCTCAGGCTTCAACCATGATCGAGAGAAAT 1020
QY 1021 GTGTTAGGAAAAATTAACGACACCTTTCTAAATGCTCAACCAAGATGCCCGCTCT 1080
DB 1021 GTGTTAGGAAAAATTAACGACACCTTTCTAAATGCTCAACCAAGATGCCCGCTCT 1080
QY 1081 TCAGGAGAGCATATACAGTCCCTTGATGATATGTTTAAATCCAGGCAAGGCTGCC 1140
DB 1081 TCAGGAGAGCATATACAGTCCCTTGATGATATGTTTAAATCCAGGCAAGGCTGCC 1140
QY 1141 CCGAATTCACAAAGGTAATTAATTCACAGTATCTCCGAAGATCCAGTTTACACGGA 1200
DB 1141 CCGAATTCACAAAGGTAATTAATTCACAGTATCTCCGAAGATCCAGTTTACACGGA 1200
QY 1201 TCAGTTTCGTTGCAACGAGTGAACATGATGAGAGAGAAAGTGAAGACCATCTTC 1260
DB 1201 TCAGTTTCGTTGCAACGAGTGAACATGATGAGAGAGAAAGTGAAGACCATCTTC 1260
QY 1261 CCGCAACATGCGGGGCTTCAACAAAGCTTACAGCTTTGCAAGGAGATGTCATACG 1320
DB 1261 CCGCAACATGCGGGGCTTCAACAAAGCTTACAGCTTTGCAAGGAGATGTCATACG 1320
QY 1321 CTGCTATCCCGAGAGAGAGATGCTGCTATGAGAGACGAGCTGTCCAAAGCG 1380
DB 1321 CTGCTATCCCGAGAGAGAGATGCTGCTATGAGAGACGAGCTGTCCAAAGCG 1380
QY 1381 AGGGGTTGTTCCCGTGTGTGACAGAGTGTCTGAGAGAAATGAGACAGAGCAGTG 1440

DB 1381 AGGGGTTGTTCCCGTGTGTGACAGAGTGTCTGAGAGAAATGAGACAGAGCAGTG 1440
QY 1441 ACCGTGCCCAACGCAAGCCCAACACATGAGAGATCAAGCAGTGAATCTGTCTGAG 1500
DB 1441 ACCGTGCCCAACGCAAGCCCAACACATGAGAGATCAAGCAGTGAATCTGTCTGAG 1500
QY 1501 AATGAGATGTTGTCATCCCGCCACCGGACTCTTGAATGCTGCTGATGGGGGAGCT 1560
DB 1501 AATGAGATGTTGTCATCCCGCCACCGGACTCTTGAATGCTGCTGATGGGGGAGCT 1560
QY 1561 GCCGACAGAGAGACAGATTCGCGACAGAGACATCCACTTAAAGCCCGAGCTCAAG 1620
DB 1561 GCCGACAGAGAGACAGATTCGCGACAGAGACATCCACTTAAAGCCCGAGCTCAAG 1620
QY 1621 CCGGAGACCGCGGCTCTTAACATGCGCAACGGGATCTGCAAGGCGCTTTCTCAGCGA 1680
DB 1621 CCGGAGACCGCGGCTCTTAACATGCGCAACGGGATCTGCAAGGCGCTTTCTCAGCGA 1680
QY 1681 GAAAAACCCCTTTGCGACTGTAACCTCCGCGGACTGTGACAGATGATCGCTGGCACC 1740
DB 1681 GAAAAACCCCTTTGCGACTGTAACCTCCGCGGACTGTGACAGATGATCGCTGGCACC 1740
QY 1741 ATCATTCATGAGAGAGACAGCAGGACTCTCCCGGCTCTTCCGCTTCTCCCTGGGA 1800
DB 1741 ATCATTCATGAGAGAGACAGCAGGACTCTCCCGGCTCTTCCGCTTCTCCCTGGGA 1800
QY 1801 ATGATGGGCGCATCTCTGTCTGCGCACTGCTGACAGGTCCGGAAGCTTCAAGGAGGCT 1860
DB 1801 ATGATGGGCGCATCTCTGTCTGCGCACTGCTGACAGGTCCGGAAGCTTCAAGGAGGCT 1860
QY 1861 AACTTAATGTCGCTGCTTAAGCAATCATGCTCTCTGTTCAAGTATGCTGTTGAC 1920
DB 1861 AACTTAATGTCGCTGCTTAAGCAATCATGCTCTCTGTTCAAGTATGCTGTTGAC 1920
QY 1921 AAGTTTCTGCTTAAAGATTAATGATGATATGATGATGATGATGATGATGATGAT 1980
DB 1921 AAGTTTCTGCTTAAAGATTAATGATGATATGATGATGATGATGATGATGATGAT 1980
QY 1981 ATTTTCTTCTTATCTGTTCAAGAAACAGTAACTTGGTTTCAATTTTAAAAA 2040
DB 1981 ATTTTCTTCTTATCTGTTCAAGAAACAGTAACTTGGTTTCAATTTTAAAAA 2040
QY 2041 AA 2096
DB 2041 AA 2096

RESULT 2

US-10-756-149-4599
; Sequence 4599, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Nacasha
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/756,149
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4599
; LENGTH: 2527
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2508)..(2508)
; OTHER INFORMATION: n is a, c, g, or t
US-10-756-149-4599

Query Match

96.6%; Score 2025.2; DB 9; Length 2527;

APPLICANT: Yang, Yonghong
APPLICANT: Meng, Gezhi
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Xue, Aidong J.
APPLICANT: Wang, Jian-Rui
APPLICANT: Wehrman, Tom
APPLICANT: Ghosh, Malabika
APPLICANT: Wang, Dunrui
APPLICANT: Zhao, Qing A.
APPLICANT: Wang, Zhiwei
TITLE OF INVENTION: No. US20040048249A1el Nucleic Acids and
FILE REFERENCE: 805A
CURRENT APPLICATION NUMBER: US/10/112,944
CURRENT FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 09/488,725
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: US 09/496,914
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: US 09/515,126
PRIOR FILING DATE: 2000-02-28
PRIOR APPLICATION NUMBER: US 09/519,705
PRIOR FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: US 09/552,929
PRIOR FILING DATE: 2000-04-18
PRIOR APPLICATION NUMBER: US 09/577,408
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 924
SOFTWARE: pc_Fl_genes Version 5.0
SEQ ID NO 39
LENGTH: 2471
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (61)..(1251)
US-10-112-944-39

Query Match 72.3%; Score 1514.6; DB 7; Length 2471;
Best Local Similarity 99.7%; Pred. No. 1.9e-306;
Matches 1528; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

499 AATTCACAAAGAGATTATCCATGAGCTGAGAGAGAGATGAACTTGACGTGAATAT 558
1 AATTCACAAAGAGATTATCCATGAGCTGAGAGAGAGATGAACTTGACGTGAATAT 60
559 ATGAACGCACTCTTAAAGATACCAACACAGAACACAGAAATTAATTAAGTCTTGGAG 618
61 ATGAACGCACTCTTAAAGATACCAACACAGAACACAGAAATTAATTAAGTCTTGGAG 120
619 AATCCCAAGCTGAGTGAAGAGATCAGAGAGAAAGCAAGAAAGCCGAAAGCACTC 678
121 AATCCCAAGCTGAGTGAAGAGATCAGAGAGAAAGCAAGAAAGCCGAAAGCACTC 180
679 AATATGAACACAAAGAAATTAAGTATGTGAGACCGTTACTTCTGTCAGAGTGAATC 738
181 AATATGAACACAAAGAAATTAAGTATGTGAGACCGTTACTTCTGTCAGAGTGAATC 240
739 CAGAAATCATTCAGATGCTGCAAGAGGCTGCTGTAAGAGAGAGGCGCTTCTG 798
241 CAGAAATCATTCAGATGCTGCAAGAGGCTGCTGTAAGAGAGAGGCGCTTCTG 300
799 TTTCTGTTGATGAAGCACTGTGCTTGGCAACCAATATATATCACTTACAGTCT 858
301 TTTCTGTTGATGAAGCACTGTGCTTGGCAACCAATATATATCACTTACAGTCT 360
859 GCAGAACTACTGATTCAGAGCTGCTGCTGTCAGAGAGACCTGTGTTATGTCATCAA 918

361 GCAGAACTACTGATTCAGAGCTGCTGCTGTCAGAGAGACCTGTGTTATGTCATCAA 420
919 GTGCCAGAGAAATCATATATATGATTCGAAGAAATTAAGACCCCGCTTACCCCCG 978
421 GTGCCAGAGAAATCATATATATGATTCGAAGAAATTAAGACCCCGCTTACCCCCG 480
979 TCTGGAATCTCTCAGAGCTTCAACCCATGATTCGAGAGAAACAAATGTGTTAGAAATTA 1038
481 TCTGGAATCTCTCAGAGCTTCAACCCATGATTCGAGAGAAACAAATGTGTTAGAAATTA 540
1039 GACACCTTTCTTAAATGCTCACAAGAGATGCCCGCTCTTCAAGCAGACATATAC 1098
541 GACACCTTTCTTAAATGCTCACAAGAGATGCCCGCTCTTCAAGCAGACATATAC 600
1099 AGTCCCTTGAATGATATGTTTAAATACCCAGCAGAGGCTGCCGAAATTCAGAAAGGTA 1158
601 AGTCCCTTGAATGATATGTTTAAATACCCAGCAGAGGCTGCCGAAATTCAGAAAGGTA 660
1159 AATATTCACAGTACTTCCGAGATCCAGTTTACAGCGATCAGTTTCGTTCCAGC 1218
661 AATATTCACAGTACTTCCGAGATCCAGTTTACAGCGATCAGTTTCGTTCCAGC 720
1219 GGACTGAACATGATGAAGAGAGAAAGTGAAGCAATCTTCCGCACTGCGGCTTC 1278
721 GGACTGAACATGATGAAGAGAGAAAGTGAAGCAATCTTCCGCACTGCGGCTTC 780
1279 AACCAAGCTTCTCAGCTTTGACAGGAGATGTCATCAGCTGCTCATCCCGAGAG 1338
781 AACCAAGCTTCTCAGCTTTGACAGGAGATGTCATCAGCTGCTCATCCCGAGAG 840
1339 AAGATGCTGCTCTATGAGAGACAGCAGTGTCCAGGCGAGGAGTGTTCCTCGT 1398
841 AAGATGCTGCTCTATGAGAGACAGCAGTGTCCAGGCGAGGAGTGTTCCTCGT 900
1399 TGTATCAGAGATGCTGAGAGAAATGAGACAGAGAGTACCTGTCCCGCCAGC 1458
901 TGTATCAGAGATGCTGAGAGAAATGAGACAGAGAGTACCTGTCCCGCCAGC 960
1459 CCCACACGATGAGAGAGATCAGACCGTGAACCTGTCTGAGATATGAGTGTTCATC 1518
961 CCCACACGATGAGAGAGATCAGACCGTGAACCTGTCTGAGATATGAGTGTTCATC 1020
1519 CCCACACGATGAGAGAGATCAGACCGTGAACCTGTCTGAGAGAGAGAT 1578
1021 CCCACACGATGAGAGAGATCAGACCGTGAACCTGTCTGAGAGAGAGAT 1080
1579 TGGCCAGAGACATTCACCTTTAAGGCCCTCAGAGCTCAGACCCGAGAGCGGCTCT 1638
1081 TGGCCAGAGACATTCACCTTTAAGGCCCTCAGAGCTCAGACCCGAGAGCGGCTCT 1140
1639 AACGATGCAAGGAGATGCAAGCGCGCTTCTCAGCGAGAGAAACCCCTTGCAC 1698
1141 AACGATGCAAGGAGATGCAAGCGCGCTTCTCAGCGAGAGAAACCCCTTGCAC 1200
1699 GTGAATCTCCGCGCATCTGTGAGATGATGCTGCGACCCATCATTTGATGAGAGAC 1758
1201 GTGAATCTCCGCGCATCTGTGAGATGATGCTGCGACCCATCATTTGATGAGAGAC 1260
1759 AGCAGAGACTTCCCGGCTCTCTCGGTTCTCTTCCGGAATGATGAGAGAGAG 1818
1261 AGCAGAGACTTCCCGGCTCTCTCGGTTCTCTTCCGGAATGATGAGAGAGAG 1320
1819 CTGCCAGCTGAGAGGCTGAGAGAGCTTCAAGAGAGAGCTTCAATGCTGCTG 1878
1321 CTGCCAGCTGAGAGGCTGAGAGAGCTTCAAGAGAGAGCTTCAATGCTGCTG 1380
1879 TTAAGCAATCATG-CTTCTCTGTTTACGATGTTGAGTGTGCAAGTCTGCTTAAG 1937
1381 TTAAGCAATCATGCTTCTCTGTTTACGATGTTGAGTGTGCAAGTCTGCTTAAG 1440
1938 AATAATGATATATCTTAATGAGAGCTCAGCAGATTTAAATATTTTCTGCTATCTG 1997
1441 AATAATGATATATCTTAATGAGAGCTCAGCAGATTTAAATATTTTCTGCTATCTG 1500

Db 1321 TACTTGGAATGCTTATTCATGAGGGGAGCTGCCGAGAGAGAGCATTCGGCCAGGACG 1380
QY 1591 ACATCCACCTTTAAGCCCGCCAGGCTCGAAGCCGAGACCCGGCTCTTAACGATGCCAAC 1650
Db 1381 ACATCCACCTTTAAGCCCGCCAGGCTCGAAGCCGAGACCCGGCTCTTAACGATGCCAAC 1440
QY 1651 GGGAGCTGGAAGCCGCTTTCTCAGAGGGGAGAAAAACCCCTTGCCACTGTGAAAATCCGCG 1710
Db 1441 GGGAGCTGGAAGCCGCTTTCTCAGAGGGGAGAAAAACCCCTTGCCACTGTGAAAATCCGCG 1500
QY 1711 CCGACTGTGA 1720
Db 1501 CCGACTGTGA 1510

RESULT 5
US-10-172-118-1805
; Sequence 1805, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 1805
; LENGTH: 2120
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM_018842
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-1805

Query Match 58.0%; Score 1216.4; DB 6; Length 2120;
Best Local Similarity 98.3%; Pred. No. 4.4e-244;
Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 232 GAGGAGGTGAACCGGCTCAAGGAGACCTACCGGAATGTTATGGAACAGTTCAATCTT 291
Db 292 GTGGGGGTGAACCTCCCTGTATTTAGATCGCCAGAAATGTTATGGAACAGTTCAATCTT 351
QY 292 GGGCTGCGAATTTAATAAAGCTGGGAAAAATTTATGAGAAAGCTGTAAAGCTTATGATC 351
Db 352 GGGCTGCGAATTTAATAAAGCTGGGAAAAATTTATGAGAAAGCTGTAAAGCTTATGATC 411
QY 352 CTGGCGAGAAAAGCTTACTACATGAGTGGCCAAAGATCGGTGAGATTGCACTGGGCTC 411
Db 412 CTGGCGAGAAAAGCTTACTACATGAGTGGCCAAAGATCGGTGAGATTGCACTGGGCTC 471
QY 412 CCGGTGTCAACTGAACCTGGGAGATGCTCATAGAGATTCAAGTACCCCAAGAAATCTC 471
Db 472 CCGGTGTCAACTGAACCTGGGAGATGCTCATAGAGATTCAAGTACCCCAAGAAATCTC 531
QY 472 AACGAGATCTTGAAGAAAATTTAAAAATTCACAAAGATTTATTCATGAGCTGGAG 531
Db 532 AACGAGATCTTGAAGAAAATTTAAAAATTCACAAAGATTTATTCATGAGCTGGAG 591
QY 532 AAAGAGATTAAGCTTGAAGAAAATTTAAAAATTCACAAAGATTTATTCATGAGCTGGAG 591
Db 592 AAAGAGATTAAGCTTGAAGAAAATTTAAAAATTCACAAAGATTTATTCATGAGCTGGAG 651
QY 592 CACAAAGATTAAGCTTGAAGAAAATTCACAAAGATTTATTCATGAGCTGGAG 651

Db 652 CACAAAGATTAAGCTTGAAGAAAATTCACAAAGATTTATTCATGAGCTGGAG 711
QY 652 AAAAGCCAGAAAGCCGAAAGCCGACTCAATATGAAACAAAGAAATTTAGATATGTGAG 711
Db 712 AAAAGCCAGAAAGCCGAAAGCCGACTCAATATGAAACAAAGAAATTTAGATATGTGAG 771
QY 712 ACCGTACTTCTGCTGAGAGTGAATTCAGAAATTCATTCAGATGTGTCAGAAAGAGCT 771
Db 772 ACCGTACTTCTGCTGAGAGTGAATTCAGAAATTCATTCAGATGTGTCAGAAAGAGCT 831
QY 772 CTGCTTGAAGAAAGAGAGCTTCTGCTTCTGCTTGAAGAAAGCTGCTGCTTGAAGAA 831
Db 832 CTGCTTGAAGAAAGAGAGCTTCTGCTTCTGCTTGAAGAAAGCTGCTGCTTGAAGAA 891
QY 832 CACATACATTTATTCATTAAGTCTGAGAACTGAGAACTGAGAACTGAGAACTGAGAA 891
Db 892 CACATACATTTATTCATTAAGTCTGAGAACTGAGAACTGAGAACTGAGAACTGAGAA 951
QY 892 CAGAGAGCTGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 951
Db 952 CAGAGAGCTGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1011
QY 952 ATAAAGACCCGAGCTTACCCCGCTGCTGGAATCTGCTGAGCTTACCCGATGATGATG 1011
Db 1012 ATAAAGACCCGAGCTTACCCCGCTGCTGGAATCTGCTGAGCTTACCCGATGATGATG 1071
QY 1012 AGAAGCAATGTGTGAGAAAGATTTAGACACACCTTTCTAATGCTCACAAAGATGCC 1071
Db 1072 AGAAGCAATGTGTGAGAAAGATTTAGACACACCTTTCTAATGCTCACAAAGATGCC 1131
QY 1072 CCGGCTCTTCAAGGAGCATATACAGTCCCTGATGATGATGATGATGATGATGATGATG 1131
Db 1132 CCGGCTCTTCAAGGAGCATATACAGTCCCTGATGATGATGATGATGATGATGATGATG 1191
QY 1132 ACGGTGCGCCGAAATTCAGAAAGGTAATTAATCAAGGATCTTCCGAGATCCAGT 1191
Db 1192 ACGGTGCGCCGAAATTCAGAAAGGTAATTAATCAAGGATCTTCCGAGATCCAGT 1251
QY 1192 TTAACGATCATAGTTCCGTTGCAACGGAGTGAACATGATGAGAAAGACAGAAAGTGAAG 1251
Db 1252 TTAACGATCATAGTTCCGTTGCAACGGAGTGAACATGATGAGAAAGACAGAAAGTGAAG 1311
QY 1252 ACCATCTTCCGCAACATGCGGCTCCCAAGACCTTAATGATGATGATGATGATGATG 1311
Db 1312 ACCATCTTCCGCAACATGCGGCTCCCAAGACCTTAATGATGATGATGATGATGATG 1371
QY 1312 GTATATCAGCTGCTCATCCCGAGAGAAAGATGCTGCTTAAGAGAACAGACGCTG 1371
Db 1372 GTATATCAGCTGCTCATCCCGAGAGAAAGATGCTGCTTAAGAGAACAGACGCTG 1431
QY 1372 TCCAAAGCGAGAGGTTGTTCCCGTCTGCTGACAGAAAGTGTGAGAAAGAAATGAGACA 1431
Db 1432 TCCAAAGCGAGAGGTTGTTCCCGTCTGCTGACAGAAAGTGTGAGAAAGAAATGAGACA 1491
QY 1432 GAAGCATGACCTGTGCCACGCGCAAGCCCAACACCAAGAGAGAGCTTCCAG 1491
Db 1492 GAAGCATGACCTGTGCCACGCGCAAGCCCAACACCAAGAGAGAGCTTCCAG 1541

RESULT 6
US-10-342-887-1805
; Sequence 1805, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene

TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
 FILE REFERENCE: 9301-188-999
 CURRENT APPLICATION NUMBER: US/10/342,887
 CURRENT FILING DATE: 2003-01-15
 PRIOR APPLICATION NUMBER: 60/298,918
 PRIOR FILING DATE: 2001-06-18
 PRIOR APPLICATION NUMBER: 60/380,710
 PRIOR FILING DATE: 2002-05-14
 PRIOR APPLICATION NUMBER: 10/172,118
 PRIOR FILING DATE: 2002-06-14
 NUMBER OF SEQ ID NOS: 2699
 SEQ ID NO 1805
 LENGTH: 2120
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-342-887-1805

Query Match 58.0%; Score 1216.4; DB 7; Length 2120;
 Best Local Similarity 98.3%; Pred. No. 4.4e-244;
 Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

232 GAGGAGGGAACCGGCTCAGGAGAGCACTACCGGAATGTATAGAAACAGTTCAATCT 291
 292 GTGGGGGGAACCTCCCTGTAATTAAGATCGCGAAGATGTATAGAAACAGTTCAATCT 351
 292 GGGCTGCGAAATTTAATTAACCTGGGGAATAATTATAGAAAGCTGTAAAGCTATGATC 351
 352 GGGCTGCGAAATTTAATTAACCTGGGGAATAATTATAGAAAGCTGTAAAGCTATGATC 411
 352 CTGGCAGAGAAAGCTCTACAGATGAGTGGCCAAAGATGGTGAAGATTCAGCTGGGTCC 411
 412 CTGGCAGAGAAAGCTCTACAGATGAGTGGCCAAAGATGGTGAAGATTCAGCTGGGTCC 471
 412 CCGGTCTCACTGAACCTGGGAGCATGCTCTCATAGAGATTTAAAGTCCCAAGAAATC 471
 472 CCGGTCTCACTGAACCTGGGAGCATGCTCTCATAGAGATTTAAAGTCCCAAGAAATC 531
 472 AACGAGTCTTGAATGAATTTTAAATAATTTCCAAAGAGATTTATCCATGAGCTGGAG 531
 532 AACGAGTCTTGAATGAATTTTAAATAATTTCCAAAGAGATTTATCCATGAGCTGGAG 591
 532 AAGAGATGAATCTTGAATGAATTTTAAATAATTTCCAAAGAGATTTATCCATGAGCTGGAG 591
 592 AAGAGATGAATCTTGAATGAATTTTAAATAATTTCCAAAGAGATTTATCCATGAGCTGGAG 651
 592 CACAAGATTAATTAAGTCTTGGAGAAATCCCAAGCTGATGAGAAAGATTCAGAGG 651
 652 CACAAGATTAATTAAGTCTTGGAGAAATCCCAAGCTGATGAGAAAGATTCAGAGG 711
 652 AAAAGCCAAAGAGCCGAAAGCGACTCAATATGAAACAAAGAAATTTAGATGATGGAG 711
 712 AAAAGCCAAAGAGCCGAAAGCGACTCAATATGAAACAAAGAAATTTAGATGATGGAG 771
 712 ACGGTACTTCTGTCAGATGAATCCAGAAATTCATTGCAATGATGGTGAAGAGGCT 771
 772 ACGGTACTTCTGTCAGATGAATCCAGAAATTCATTGCAATGATGGTGAAGAGGCT 831
 772 CTGCTTGAAGAGAGAGCGCTTCTGCTTCTGGTTATAGAGCATGCTGGCTTGGCAAC 831
 832 CTGCTTGAAGAGAGAGCGCTTCTGCTTCTGGTTATAGAGCATGCTGGCTTGGCAAC 891
 832 CACATACATTAATTAATCACTTAACAGTCTGAGAACTACTGAATTCAGAGCTGCGGTGG 891
 892 CACATACATTAATTAATCACTTAACAGTCTGAGAACTACTGAATTCAGAGCTGCGGTGG 951
 892 CAGGAGACCTGTGTATGATGCAATCAAGTCCAGAGAAATCAATGATATGATGAGAA 951
 952 CAGGAGACCTGTGTATGATGCAATCAAGTCCAGAGAAATCAATGATATGATGAGAA 1011
 952 ATTAAGACCCCAAGCTCTACCCCGTGTGAGAACTCTCAGGCTTCAACCATGATGAG 1011
 1012 ATTAAGACCCCAAGCTCTACCCCGTGTGAGAACTCTCAGGCTTCAACCATGATGAG 1071

1012 AGAGCAATGNGTATAGAAAGATTACAGACACCTTTTAAATGTCACCAAGATGCC 1071
 1072 AGAAGCAATGTGTAGAAAGATTACAGACACCTTTTAAATGTCACCAAGATGCC 1131
 1072 CCCCTCTTTCAGGACAGATATATACAGTCCCTTGAATGATATGTTAATTAACCCAGC 1131
 1132 CCCCTCTTTCAGGACAGATATATACAGTCCCTTGAATGATATGTTAATTAACCCAGC 1191
 1132 ACGGCTGCCCCGAATTCACAAAGGGTAATTAATTAACAGGTAATTCAGGTAATTCAGG 1191
 1192 ACGGCTGCCCCGAATTCACAAAGGGTAATTAATTAACAGGTAATTCAGGTAATTCAGG 1251
 1192 TTACAGGATAGTGTGGTGTGCAACCGGACTGAACATGATGAAGAGCAAGAGTGAAG 1251
 1252 TTACAGGATAGTGTGGTGTGCAACCGGACTGAACATGATGAAGAGCAAGAGTGAAG 1311
 1252 ACCATCTTCCGACACACTGCGGGCTCCACAAAGACTTACTCAGCTTTCACAGGAGAT 1311
 1312 ACCATCTTCCGACACACTGCGGGCTCCACAAAGACTTACTCAGCTTTCACAGGAGAT 1371
 1312 GTCATACGCTGCTCATCCCGAGAGAGAGATGGCTGCTTATGAGAAACAGCTG 1371
 1372 GTCATACGCTGCTCATCCCGAGAGAGAGATGGCTGCTTATGAGAAACAGCTG 1431
 1372 TCCAAAGCGAGGGGTGCTTCCGCTGCTGTAACGAAGTTGCTGGAAGAAATGAGACA 1431
 1432 TCCAAAGCGAGGGGTGCTTCCGCTGCTGTAACGAAGTTGCTGGAAGAAATGAGACA 1491
 1492 GAAGCAGTGAACCGTCCGACGACCCCAAGCCCAACAGTGAAGAGCTTCAAG 1541

RESULT 7
 US-10-450-763-9761
 Sequence 9761, Application US/10450763
 Publication No. US20050196754A1.
 GENERAL INFORMATION:
 APPLICANT: Hyseq, Inc
 TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
 FILE REFERENCE: 790CIP3/US
 CURRENT APPLICATION NUMBER: US/10/450,763
 CURRENT FILING DATE: 2003-06-11
 PRIOR APPLICATION NUMBER: PCT/US01/08631
 PRIOR FILING DATE: 2001-03-30
 PRIOR APPLICATION NUMBER: 09/540,217
 PRIOR FILING DATE: 2000-03-31
 PRIOR APPLICATION NUMBER: 09/649,167
 PRIOR FILING DATE: 2000-08-23
 NUMBER OF SEQ ID NOS: 60736
 SOFTWARE: Custom
 SEQ ID NO 9761
 LENGTH: 1729
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: SIMILAR
 LOCATION: (319) (939)
 OTHER INFORMATION: 67% homologous to Homo sapiens insulin receptor tyrosine
 OTHER INFORMATION: Kinase substrate, accession number AF119666, Smith-Waterman Score
 US-10-450-763-9761

Query Match 51.1%; Score 1071; DB 9; Length 1729;
 Best Local Similarity 95.1%; Pred. No. 1.1e-213;
 Matches 1205; Conservative 0; Mismatches 45; Indels 17; Gaps 9;

232 GAGGAGGTGAACCGGCTCAGGAGAGCACTACCGGAATGTATAGAAAGTCAATCT 291
 277 GTGGGGGTGAACCTCCCTGTAATTAAGATCGCGAAGATGTATAGAAAGTCAATCT 336
 292 GGGCTGCGAAATTTAATTAACCTGGGGAATAATTATAGAAAGCTGTAAAGCTATGATC 351

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Db 337 GGGGTGGAATTTTAACTGGGGAAAAATTAAGAAAGCTGTAAACGCTATGATC 396
Qy 352 CTGGCAGAAAAAGCTTCTATCATGATGAGTGGCCAGATCGGTGATGTCACATGGGTCC 411
Db 397 CTGGCAGAAAAAGCTTCTATCATGATGAGTGGCCAGATCGGTGATGTCACATGGGTCC 456
Qy 412 CCCGTGCAAC-TGAATGGGACATGCTCATAGAGATTTCAAGTACCCACAGAAAAAC- 469
Db 457 CCCGTGCAACCTGACATGGGACATGCTCATAGAGATTTCAAGTACCCACAGAAAACT 516
Qy 470 TCAACGAGAGCTT--GATGAAAAATTTAAAAATTCACAAAGAGATTTCCATGAGC 526
Db 517 TCAACGAGAGCTTGTGATGAAAAATTTAAAAATTCACAAAGAGATTTCCATGAGC 576
Qy 527 TGGAGAGAGATGAGCTT-GAGGTGAATATATGAAAGCACTTAATAAGATATACCA 585
Db 577 TGGAGAGAGATGAGCTTGGAGGTGAATATATGAAAGCACTTAATAAGATATACCA 636
Qy 586 ACAGAACACAGAAATTAATTAAGTCTTTGGAGAAATCCCAAGCTGAGTTGAGAGATC 645
Db 637 ACAGAACACAGAAATTAATTAAGTCTTTGGAGAAATCCCAAGCTGAGTTGAGAGATC 696
Qy 646 AGAAGAAAAAGCCAGAGAGCCGAAACGCACTCAATATGAAACAAAGAAATGAGAT 705
Db 697 AGAAGAAAAAGCCAGAGAGCCGAAACGCACTCAATATGAAACAAAGAAATGAGAT 756
Qy 706 GTGAGAACCTTACTTCTCTGATGAGTGAATCC-AGAAATTCATGAGATGGTTGCA 764
Db 757 GTGAGAACCTTACTTCTCTGATGAGTGAATCC-AGAAATTCATGAGATGGTTGCA 816
Qy 765 AGAGGCTGCTGTTGAGAGAGAGCG-----CTTCTGCTTCTGATGATGAACTG 818
Db 817 AGAGGCTGCTGTTGAGAGAGAGCGCGCTTCTGCTTCTGATGATGAACTG 876
Qy 819 TGGCTTTGCAAA--CCACATACATATTTATCATCTTACAGTCTGCAAGTACTGAAAT-C 875
Db 877 TGGCTTTGCAAAAGCCACATACATATTTATCATCTTACAGTCTGCAAGTACTGAAATCC 936
Qy 876 CAAGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 934
Db 937 CAAGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 996
Qy 935 TGAATATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 994
Db 997 TGAATATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1056
Qy 995 CTTCACCATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1054
Db 1057 CTTCACCATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1116
Qy 1055 GCTCAGCAAGAGTGGCCCGCTCCTTCAGGAGAGAGATATACAGTCCCTTGATGATA 1114
Db 1117 GCTCAGCAAGAGTGGCCCGCTCCTTCAGGAGAGAGATATACAGTCCCTTGATGATA 1176
Qy 1115 TGTTTAATTAACCCAGCAGCGGTGCGCGAATTCACAAAGGAGTAAATTAATCAAGATA 1174
Db 1177 TGTTTAATTAACCCAGCAGCGGTGCGCGAATTCACAAAGGAGTAAATTAATCAAGATA 1236
Qy 1175 CTTCGAGAGATCCAGTCTTACAGCGATAGTTGGTTGGCAACGGGACCTGAACATGATGA 1234
Db 1237 CTTCGAGAGATCCAGTCTTACAGCGATAGTTGGTTGGCAACGGGACCTGAACATGATGA 1296
Qy 1235 ACAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1294
Db 1297 ACAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1356
Qy 1295 GCTTTGCAACGAGAGAGATGATCAACGCTGCTCAATCCCGAGAGAGAGAGAGAGAGAG 1354
Db 1357 GCTTTGCAACGAGAGAGATGATCAACGCTGCTCAATCCCGAGAGAGAGAGAGAGAGAG 1416
Qy 1355 ATGAGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1414
Db 1417 ATGAGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1476

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Qy 1415 TGGAGAAAAATGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1474
Db 1477 TGGAGAAAAATGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1536
Qy 1475 GCATCAG 1481
Db 1537 GCTTCAG 1543

RESULT 8
US-10-450-763-9762
; Sequence 9762, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hysq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 9762
; LENGTH: 1993
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (76)..(501)
; OTHER INFORMATION: 79% homologous to Homo sapiens insulin receptor tyrosine
; OTHER INFORMATION: kinase substrate,accession number AF119666,Smith-Waterman Score=
; OTHER INFORMATION: 578.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(1993)
; OTHER INFORMATION: n = a,t,c or g
US-10-450-763-9762

Query Match 48.7%; Score 1021.2; DB 9; Length 1993;
Best Local Similarity 89.3%; Pred. No. 3e-203;
Matches 1211; Conservative 0; Mismatches 38; Indels 107; Gaps 6;

Qy 680 AATATGAACCAAGAAATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 739
Db 158 AACTGAGTGAATATATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 217
Qy 740 AGAATTCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 799
Db 218 AGAATTCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 277
Qy 800 TTCTGTTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 859
Db 278 TTCTGTTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 337
Qy 860 CAGAACTATGAAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 919
Db 338 CAGAACTATGAAATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 397
Qy 920 TGCAGAGAAATATGATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 979
Db 398 TGCAGAGAAATATGATGATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 457
Qy 980 CTGGAATCTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1039
Db 458 CTGGAATCTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 501
Qy 1040 AACCCCTTTCTAATATGCTACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1099

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Query Match	Similarity	Score	576.4	DB 3	Length	1242	
Best Local	Similarity	95.3%	Pred.	No.	2.8e-110		
Matches	592	Conservative	1	Mismatches	28	Indels	0
							Gaps
							0
1410	GTTCGTGAGAGAAAATGAGACAGAGACGAGTACCGTGGCCACGCCACGCCACCAACGACT	1468					
239	GGTGGTGAACATTATCTTAACACGCGTGTGTCTTTTGGGATTGAGCCCCACACACAGT	298					
1470	GAGAAAGCATCAGCACCGCTGAACTTGTCTGAGAAATGCGATGTGTGATACCCCCACCCGCA	1528					
299	GAGAAAGCATCAGCACCGCTGAACTTGTCTGAGAAATGCGATGTGTGATACCCCCACCCGCA	358					
1530	CTACTTGGAAATGCTGTGCATATGGGGGGGACGTCCGACAGAGAGACAGATTGGCCACGAGAC	1588					
359	CTACTTGGAAATGCTGTGCATATGGGGGGGACGTGTGCGACAGAGAGACAGATTGGCCACGAGAC	418					
1590	GACATCCACCTTTAAGGCCGCCACGCTCCAGGCCCGAGACCGCGGCTCTTAACATGACATGCCAA	1648					
419	GACATCCACCTTTAAGGCCGCCACGCTCCAGGCCCGAGACCGNGGCTCTTAACATGACATGCCAA	478					
1650	CGGAGCTGCAGAAAGCCGCCCTTTTCTCAGCGGAGAGAAAACCCCTTTGGCATCTGTGAACCTCG	1708					
479	CGGAGCTGCAGAAAGCCGCCCTTTTCTCAGCGGAGAGAAAACCCCTTTGGCATCTGTGAACCTCG	538					
1710	CCCGACTGTGAGAGATGATTCGTCGGGACCCCATCTCATTCGATGAGAGAGACAGCCAGAGACT	1768					
539	CCCGACTGTGAGAGATGATTCGTCGGGACCCCATCTCATTCGATGAGAGAGACAGCCAGAGACT	598					
1770	CTCCCGGAGGCTCTCCGGTCTCTCCCTTGGCGAGATGATGGCGGATCCTGTCTGCGACAGTGC	1828					
599	CTCCCGGAGGCTCTCCGGTCTCTCCCTTGGCGAGATGATGGCGGATCCTGTCTGCGACAGTGC	658					
1830	TGACGGTTCGGGAAAGCTTCAGTGAAGAGGCTTAACCTTAATGTGCGCTGCTTAAGCAAAATC	1888					
659	TGACGGTTCGGGAAAGCTTCAGTGAAGAGGCTTAACCTTAATGTGCGCTGCTTAAGCAAAATC	718					
1890	ATGCTTCTCTGTTTCAACGATGTGGTGTGACAAAGTTTCGACCTTAAGATTAATGATGATTA	1944					
719	ATGCTTCTCTGTTTCAACGATGTGGTGTGACAAAGTTTCGACCTTAAGATTAATGATGATTA	778					

[illegible]

Db 408 GCAACTCTTAAAGATGTCNAACAGAAACAAGATTAATTAGCTTTGGAAATCC 467
Qy 625 CAAGCTGAGTTGAAGAAATCAGAAAGAAAGCCAGAAAGCCGAAACGACTCAATAT 684
Db 468 CAAGCTGAGTTGAAGAAATCAGAAAGAAAGCCAGAAAGCCGAAACGACTCAATAT 527
Qy 685 GAAACAAGAAATGAGTATGTGAGAGACCGTACTTCTGTGAGAGTGAATCCAGAA 744
Db 528 GAAACAAGAAATGAGTATGTGAGAGACCGTACTTCTGTGAGAGTGAATCCAGAA 587
Qy 745 TTCATTCAGATGTCGAAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTCTGC 798
Db 588 TTCATTCAGATGTCGAAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTCTGC 641

RESULT 12

US-09-878-134-252
Sequence 252, Application US/09878134
Publication No. US20020086303A1
GENERAL INFORMATION:
APPLICANT: Meagher, Madeline Joy
APPLICANT: King, Gordon E.
APPLICANT: Xu, Jianshun
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
FILE REFERENCE: 210121.532
CURRENT APPLICATION NUMBER: US/09/878,134
NUMBER OF SEQ ID NOS: 377
SOFTWARE: Corixa Invention Disclosure Database
SEQ ID NO 252
LENGTH: 559
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1) ... (559)
OTHER INFORMATION: n = A,T,C or G
US-09-878-134-252

Query Match 26.5%; Score 556; DB 3; Length 559;
Best Local Similarity 99.5%; Pred. No. 3.7e-106;
Matches 556; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 863 AACTCTGATTCAGAGCTGCTCGGTGCGAGAGACCTGTGTGATGCCATCAAGTGC 922
Db 1 AACTCTGATTCAGAGCTGCTCGGTGCGAGAGACCTGTGTGATGCCATCAAGTGC 60
Qy 923 CAGAGAAATCATGATATGATGAGAAATAAGACCCAGCTCTACCCCGTGTCTG 982
Db 61 CAGAGAAATCATGATATGATGAGAAATAAGACCCAGCTCTACCCCGTGTCTG 120
Qy 983 GAAGCTCTGAGCTTCAAGCTGATGAGAGAGCAATGTGTTAGAAAGATTACGACA 1042
Db 121 GAAGCTCTGAGCTTCAAGCTGATGAGAGAGCAATGTGTTAGAAAGATTACGACA 180
Qy 1043 CCCTTCTTAATGCTCAAGAAAGATGCCCCCGCTCTTCAAGAGAGATATACAGTC 1102
Db 181 CCCTTCTTAATGCTCAAGAAAGATGCCCCCGCTCTTCAAGAGAGATATACAGTC 240
Qy 1103 CCTTGATGATATGTTTATAATACAGAGCAAGGCTGCCCCGAATTCAAGAGTTAATA 1162
Db 241 CCTTGATGATATGTTTATAATACAGAGCAAGGCTGCCCCGAATTCAAGAGTTAATA 300
Qy 1163 ATTCAACAGGTATCTTCCGAAGTCCAGTTTAAGGATCAAGTTTGGTTCACGGGAC 1222
Db 301 ATTCAACAGGTATCTTCCGAAGTCCAGTTTCAAGGATCAAGTTTGGTTCACGGGAC 360
Qy 1223 TGAACATATGAG 1282
Db 361 TGAACATATGAG 420

Qy 1283 AGACCTTACTCAGCTTTGACAGAGAGATGATCATCGCTGCTCATCCCGAGAGAGAG 1342
Db 421 AGACCTTACTCAGCTTTGACAGAGAGATGATCATCGCTGCTCATCCCGAGAGAGAG 480
Qy 1343 ATGGCTGCTATGAG 1402
Db 481 ATGGCTGCTATGAG 540
Qy 1403 ACAAGAGTTGCTGAGAGA 1421
Db 541 ACAAGAGTTGCTGAGAGA 559

RESULT 13

US-10-066-543-321
Sequence 321, Application US/10066543
Publication No. US20030087818A1
GENERAL INFORMATION:
APPLICANT: Jiang, Yugu
APPLICANT: Pyle, Ruth A.
APPLICANT: Xu, Jianshun
APPLICANT: Indirias, Carol Yoseph
APPLICANT: Lodes, Michael J.
APPLICANT: Secrist, Heather
APPLICANT: Carter, Darrick
APPLICANT: Fanger, Gary R.
APPLICANT: Smith, Carole L.
APPLICANT: Durham, Margalita
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.563
CURRENT APPLICATION NUMBER: US/10/066,543
NUMBER OF SEQ ID NOS: 3417
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 321
LENGTH: 539
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
LOCATION: 20, 23, 51, 61, 71
OTHER INFORMATION: n = A,T,C or G
US-10-066-543-321

Query Match 24.8%; Score 520.8; DB 5; Length 539;
Best Local Similarity 98.7%; Pred. No. 8.4e-99;
Matches 522; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 205 GCGGCGGAGCCATGTCCTCGGGGCGCCGAGAGAGTGAACCGGCTACGAGAGACCTAC 264
Db 11 GCGGCGGAGCCATGTCCTCGGGGCGCCGAGAGAGTGAACCGGCTACGAGAGACCTAC 70
Qy 265 CGGAATGTTATGAGACAGTTCATCTGCGGCTCGCAAAATTTAATAACCTGGGAAAAAT 324
Db 71 NGGAATGTTATGAGACAGTTCATCTGCGGCTCGCAAAATTTAATAACCTGGGAAAAAT 130
Qy 325 TATGAGAAAGCTGTAAAGCTATGATCTGTGAGAGAAAGAGCTTACTAGATGAGTGGC 384
Db 131 TATGAGAAAGCTGTAAAGCTATGATCTGTGAGAGAAAGAGCTTACTAGATGAGTGGC 190
Qy 385 AAGATCGGTGATGTCACAGTGGGTCCTCGGTGCACTGAACGTGGGACATGCTCTATA 444
Db 191 AAGATCGGTGATGTCACAGTGGGTCCTCGGTGCACTGAACGTGGGACATGCTCTATA 250
Qy 445 GAGATTTCAAGTACCAAGAACTCAAGAGAGTCTTGTAGAAATTTTAAAAAATTC 504
Db 251 GAGATTTCAAGTACCAAGAACTCAAGAGAGTCTTGTAGAAATTTTAAAAAATTC 310
Qy 505 CACAAAGAGATTATTCATGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 564

Db 311 CACAAAGATTTATTCATGAGCTGAGAGAAAGATAGAACTTGAAGTAAATATATGAC 370
Qy 565 GCAACTCTTAAAGATACCAACAGACAAAGAAATTAAGTCTTTTGAGAAATCC 624
Db 371 GCAACTCTTAAAGATACCAACAGACAAAGAAATTAAGTCTTTTGAGAAATCC 430
Qy 625 CAACTGAGTTGAAGATGAGAGAAAGCCAGAGAGCCGAGCACTCAATAT 684
Db 431 CAACTGAGTTGAAGATGAGAGAAAGCCAGAGAGCCGAGCACTCAATAT 490
Qy 685 GAACACAAAGAAATGAGTATGAGAGCCGTTACTTCTGTCAGAGTG 733
Db 491 GAACACAAAGAAATGAGTATGAGAGCCGTTACTTCTGTCAGAGTG 539

RESULT 14
US-09-960-253-83
; Sequence 83, Application US/09960253
; Patent No. US20020123619A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Mohamach, Raodoh
; APPLICANT: Lodes, Michael J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.556
; CURRENT APPLICATION NUMBER: US/09/960,253
; NUMBER OF SEQ ID NOS: 187
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 511
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-960-253-83

Query Match 23.3%; Score 488; DB 3; Length 511;
Best Local Similarity 99.6%; Pred. No. 6e-92;
Matches 510; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 806 TTGATTAAGCACTGTGGCTTTGGCAACACATATATTATATCATTTACAGTGTGCAAGC 865
Db 1 TTGATTAAGCACTGTGGCTTTGGCAACACATATATTATATCATTTACAGTGTGCAAGC 60
Qy 866 TACTGAAATTCGAAGCTGCTCGGTGAGAGAGACCTGTGTTGATGCAATCAAGTCCAG 925
Db 61 TACTGAAATTCGAAGCTGCTCGGTGAGAGAGACCTGTGTTGATGCAATCAAGTCCAG 120
Qy 926 AGAAATCATGAATATGATGAGAGAAATTAAGACCCAGCTCTACCCCGTGTCTGAA 985
Db 121 AGAAATCATGAATATGATGAGAGAAATTAAGACCCAGCTCTACCCCGTGTCTGAA 180
Qy 986 CT-CCTCAGGCTTACCCATGATGAGAGAGAGCAATGTGTTAGAAAGATTAGACACC 1044
Db 181 CTCCTCAGGCTTACCCATGATGAGAGAGAGCAATGTGTTAGAAAGATTAGACACC 239
Qy 1045 CTTTCTAAATGCTCACCAGAAAGATGCCCCCGCTCTTACAGGAGACATATACAGTCCC 1104
Db 240 CTTTCTAAATGCTCACCAGAAAGATGCCCCCGCTCTTACAGGAGACATATACAGTCCC 299
Qy 1105 TTGATGATATGTTTAAATACCCAGCCAGCGCTGCCCGAATTCAGAAAGGTTAAATAT 1164
Db 300 TTGATGATATGTTTAAATACCCAGCCAGCGCTGCCCGAATTCAGAAAGGTTAAATAT 359
Qy 1165 TCAACAGGTAATTCAGAGATCCAGTTTACAGCGATCAATTTGCGTTGCAAGGGAATG 1224
Db 360 TCAACAGGTAATTCAGAGATCCAGTTTACAGCGATCAATTTGCGTTGCAAGGGAATG 419
Qy 1225 AACATGATGAGAGAGAGAGAGAGACATCTTCCGAGCACTGCGGGCTCCAAACAG 1284
Db 420 AACATGATGAGAGAGAGAGAGAGACATCTTCCGAGCACTGCGGGCTCCAAACAG 479
Qy 1285 ACCTTACTGAGCTTTGCAAGGAGATGATCAT 1316

Db 480 ACCTTACTGAGCTTTGCAAGGAGATGATCAT 511

RESULT 15
US-09-960-253-90
; Sequence 90, Application US/09960253
; Patent No. US20020123619A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Mohamach, Raodoh
; APPLICANT: Lodes, Michael J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.556
; CURRENT APPLICATION NUMBER: US/09/960,253
; NUMBER OF SEQ ID NOS: 187
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 90
; LENGTH: 512
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-960-253-90

Query Match 22.4%; Score 470.4; DB 3; Length 512;
Best Local Similarity 99.8%; Pred. No. 2.9e-88;
Matches 471; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CTCCTGTGCTCTCGAAGAGCCAGGCGGCGCTGCCGCAAGTTTGAATTTCCGAG 60
Db 41 CTCCTGTGCTCTCGAAGAGCCAGGCGGCGCTGCCGCAAGTTTGAATTTCCGAG 100
Qy 61 CGAGAGCGGCGGCGGCACTCTCGGAGCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
Db 101 CGAGAGCGGCGGCGGCACTCTCGGAGCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGG 160
Qy 121 CCTTATGTCGCGCCCGGCTCTCGGAGTCCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
Db 161 CCTTATGTCGCGCCCGGCTCTCGGAGTCCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 220
Qy 181 CGTCTCCGCGCTTCTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
Db 221 CGTCTCCGCGCTTCTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 280
Qy 241 AACCGCTCAGCGAGAGACCTACCGGAATGTTAAGCAATCTGAGCTGCGA 300
Db 281 AACCGCTCAGCGAGAGACCTACCGGAATGTTAAGCAATCTGAGCTGCGA 340
Qy 301 AATTAAATTAACCTGGGAAAAATTAAGAAAGCTGTTAAGCTTAATCTTGGCAGGA 360
Db 341 AATTAAATTAACCTGGGAAAAATTAAGAAAGCTGTTAAGCTTAATCTTGGCAGGA 400
Qy 361 AAAGCTTACATGATGAGTGGCGAAGATCGGTGAGATTGGCACTGGGCTGCCGTGTA 420
Db 401 AAAGCTTACATGATGAGTGGCGAAGATCGGTGAGATTGGCACTGGGCTGCCGTGTA 460
Qy 421 ACTGAAGTGGACATGCTCTCATAGAGATTCAAGTACCACAAAGAACTCA 472
Db 461 ACTGAAGTGGACATGCTCTCATAGAGATTCAAGTACCACAAAGAACTCA 512

Search completed: March 20, 2006, 14:08:39
Job time: 1708 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:54 ; Search time 854 Seconds
(without alignments)
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Title: US-10-801-292-1

Perfect score: 2096

Sequence: 1 cctccctgctcctcgaagaa.....aaaaaaaaaaaaaaaaa 2096

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 1: geneseqn1980s.*
- 2: geneseqn1990s.*
- 3: geneseqn2000s.*
- 4: geneseqn2001s.*
- 5: geneseqn2001bs.*
- 6: geneseqn2002as.*
- 7: geneseqn2002bs.*
- 8: geneseqn2003as.*
- 9: geneseqn2003bs.*
- 10: geneseqn2003cs.*
- 11: geneseqn2003ds.*
- 12: geneseqn2004as.*
- 13: geneseqn2004bs.*
- 14: geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2028.4	96.8	3617	13 ACN38684	ACN38684 Tumour-as
2	1821.4	86.9	2317	4 AAF32674	AAF32674 Human cDN
3	1514.6	72.3	2471	12 ADM86946	ADM86946 Human pro
4	1448.4	69.1	1510	12 ADM87430	ADM87430 Human EST
5	1216.4	58.0	2120	13 ADP25944	ADP25944 Breast ca
6	1206.4	57.6	1221	14 ADV48099	ADV48099 Human psy
7	1071	51.1	1729	5 AAS73957	AAS73957 DNA encod
8	1021.2	48.7	1993	5 AAS73958	AAS73958 DNA encod
9	594	28.3	625	11 ADT94962	ADT94962 Colon can
10	594	28.3	625	11 ADX41444	ADX41444 Human cDN
11	576.4	27.5	1242	3 AAC77875	AAC77875 Human can
12	576.2	27.5	641	11 ADT95471	ADT95471 Colon can
13	576.2	27.5	641	11 ADX41953	ADX41953 Human cDN
14	556	26.5	559	6 ABR29726	ABR29726 Colon ade
15	520.8	24.8	539	11 ADT94802	ADT94802 Colon can
16	520.8	24.8	539	11 ADX41284	ADX41284 Human cDN
17	488	23.3	511	6 ABR70212	ABR70212 Human lun
18	470.4	22.4	512	6 ABR70219	ABR70219 Human lun
19	355	16.9	3128	12 ADO64787	ADO64787 Novel hum

20	329	15.7	449	5 AAS73955	AAS73955 DNA encod
21	274.8	13.1	439	5 AAS73956	AAS73956 DNA encod
22	259.6	12.4	2080	2 AAV72220	AAV72220 Human IRS
23	259.6	12.4	2080	10 ADD35681	Add35681 Human ins
24	259.6	12.4	2080	10 ADB86152	ADB86152 Human IRS
25	258	12.3	2129	13 ADR66181	ADR66181 Human pro
26	258	12.3	2129	14 ADX07028	ADX07028 Cyclin-de
27	258	12.3	2137	2 AAS28999	AAS28999 Human pro
28	258	12.3	2677	14 ADX07032	ADX07032 Cyclin-de
29	258	12.3	3168	14 ADX07030	ADX07030 Cyclin-de
30	258	12.3	3255	8 ADL22621	ADL22621 Human dis
31	258	12.3	3458	11 ABX34756	ABX34756 Human mtd
32	255.4	12.2	295	6 ABF79691	ABF79691 Human ova
33	241.6	11.5	2328	10 ADD35683	Add35683 Human ins
34	241.6	11.5	2328	10 ADB86154	ADB86154 Human IRS
35	240.2	11.5	45698	12 ADJ12490	ADJ12490 DNA Eragm
36	227.4	10.8	1415	14 ADZ77086	ADZ77086 IRSp53 r1
37	219.6	10.5	2133	4 AAH18159	AAH18159 Human cDN
38	216.4	10.3	16181	4 ABK42539	ABK42539 Genomic s
39	216.4	10.3	16181	4 AAL04268	AAL04268 Human rep
40	216.4	10.0	16181	9 ADB60695	ADB60695 Connectiv
41	209.6	10.0	476	6 ABF67044	ABF67044 Thyroid c
42	209.6	10.0	476	6 ABF68013	ABF68013 Ovary can
43	209.6	10.0	476	6 ABF67457	ABF67457 Thyroid c
44	203.8	9.7	363	10 ADF66284	ADF66284 Human mtc
45	203.8	9.7	363	13 ACF87869	ACF87869 Human STR

ALIGNMENTS

RESULT 1	ACN38684	standard; cDNA; 3617 bp.
ID	ACN38684	
AC	ACN38684	
XX	18-NOV-2004	(first entry)
DT		
XX		
DE		Tumour-associated antigenic target (TAT) cDNA DNA34988, SEQ ID NO:2351.
XX		
KW		Tumour-associated antigenic target; TAT; human; overexpression; cancer;
KW		tumour; diagnosis; cell proliferative disorder; breast cancer;
KW		colorectal cancer; lung cancer; ovarian cancer; liver cancer;
KW		central nervous system cancer; bladder cancer; pancreatic cancer;
KW		cervical cancer; melanoma; leukaemia; hybridisation probe;
KW		chromosome identification; chromosome mapping; gene mapping;
KW		gene therapy; cytostatic; gene; ss.
OS		Homo sapiens.
XX		
XX		WO2004030615-A2.
XX		
XX		15-APR-2004.
PD		
XX		
XX		29-SEP-2003; 2003WO-US028547.
PF		
XX		
XX		02-OCT-2002; 2002US-041971P.
PR		
XX		
XX		(GETH) GENENTECH INC.
PA		
XX		
XX		Wu TD, Zhang Z, Zhou Y;
PI		
XX		
DR		WPI; 2004-347921/32.
XX		
XX		
PT		New tumor-associated antigenic target polypeptides and nucleic acids,
PT		useful in preparing a medicament for treating or detecting a
PT		proliferative disorder, e.g. breast, lung, colorectal, ovarian or
PT		prostate cancer or tumor.
XX		
PS		Claim 1; SEQ ID NO 2351; 7273pp; English.
XX		
XX		
CC		The invention relates to human tumour-associated antigenic target (TAT)

CC polypeptides, and their related nucleic acids. The TAT polypeptides are
CC overexpressed in cancer tissues compared to normal tissues, and may thus
CC serve as effective targets for the diagnosis and treatment of cancer in
CC mammals. The invention also relates to nucleic acid and polypeptide
CC sequences at least 80% identical to the TAT nucleic acids and
CC polypeptides; expression vectors and host cells comprising a TAT nucleic
CC acid; an antibody specific for a TAT polypeptide; a peptide or organic
CC molecule which binds to a TAT polypeptide; fusion proteins comprising a
CC TAT polypeptide; and methods and compositions for the treatment or
CC diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,
CC antibodies, antagonists, binding molecules and compositions are useful
CC for diagnosing or treating a cell proliferative disorder associated with
CC increased TAT expression, particularly cancers such as breast cancer,
CC colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder
CC cancer, pancreatic cancer, cervical cancer, cancers of the central
CC nervous system, melanoma and leukaemia. TAT nucleic acids may further be
CC used as hybridisation probes, in chromosome and gene mapping, in
CC chromosome identification and in gene therapy. The present sequence
CC represents a TAT nucleic acid of the invention
XX

Sequence 3617 BP; 941 A; 941 C; 924 G; 811 T; 0 U; 0 Other;

Query Match 96.8%; Score 2028.4; DB 13; Length 3617;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2029; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 CTCCTGCTCCCTCGAAGAGCCAGGGGGCTGCGCAATTTTGAATTTGGCAG 60
DB 1 CTCCTGCTCCCTCGAAGAGCCAGGGGGCTGCGCAATTTTGAATTTGGCAG 60
QY 61 CGAGAGCGCGCGGCGGCACTCTCGGCGCGAGCTGCGCGCGCGCGAGCCCTTCAGAGC 120
DB 61 CGAGAGCGCGCGGCGGCACTCTCGGCGCGAGCTGCGCGCGCGCGAGCCCTTCAGAGC 120
QY 121 CCCTTAGTGGCGCCCGGCGCTTCCGCTGCGCGAGTCCGCGCGCGCGAGCCCGCG 180
DB 121 CCCTTAGTGGCGCCCGGCGCTTCCGCTGCGCGAGTCCGCGCGCGCGAGCCCGCG 180
QY 181 CGTCTCCCGCGCTTCTCGCGCGCGGCGCGAGCATGTCGCGGGGGCCGAGAGAGTG 240
DB 181 CGTCTCCCGCGCTTCTCGCGCGCGGCGCGAGCATGTCGCGGGGGCCGAGAGAGTG 240
QY 241 AACCGGCTCAGCGAGAGCACTACCGGAATGTTATGAAACAGTTCACTCGGCGTGC 300
DB 241 AACCGGCTCAGCGAGAGCACTACCGGAATGTTATGAAACAGTTCACTCGGCGTGC 300
QY 301 AATTATTAACCTGGGGAATAATTATGAAAGCTGTAAACCTTATGATCTCGGAGCA 360
DB 301 AATTATTAACCTGGGGAATAATTATGAAAGCTGTAAACCTTATGATCTCGGAGCA 360
QY 361 AAAGCTTACTAGAGAGAGTGGCGCAAGATCGGTGAGATTGCACTGGGTCCTCCG 420
DB 361 AAAGCTTACTAGAGAGAGTGGCGCAAGATCGGTGAGATTGCACTGGGTCCTCCG 420
QY 421 ACTGAACCTGGGACATGCTCATAGAGATTCAAGTACCAAGAACTCAACGAGAGT 480
DB 421 ACTGAACCTGGGACATGCTCATAGAGATTCAAGTACCAAGAACTCAACGAGAGT 480
QY 481 CTGTGAGAAATTTTAAAAATTTTCACAAGAGATTATCATGAGCTGGGAGGAAGATA 540
DB 481 CTGTGAGAAATTTTAAAAATTTTCACAAGAGATTATCATGAGCTGGGAGGAAGATA 540
QY 541 GAACTTGACGTGAATATATGAAACGCAACTTAATAAGATACCAACAGAAACAGAAAT 600
DB 541 GAACTTGACGTGAATATATGAAACGCAACTTAATAAGATACCAACAGAAACAGAAAT 600
QY 601 AAATTGAGCTCTTGGAGAAATCCCAAGCTGAGTTGAAGAGATCGAAGAGAAACCA 660
DB 601 AAATTGAGCTCTTGGAGAAATCCCAAGCTGAGTTGAAGAGATCGAAGAGAAACCA 660
QY 661 GGAAGCGGAAACGCACTCAATAATATGAAACCAAGAAATTGATGTGGAGACCGTTACT 720
DB 661 GGAAGCGGAAACGCACTCAATAATATGAAACCAAGAAATTGATGTGGAGACCGTTACT 720
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QY 721 TCTGTCAGAGTGAATTCAGAAATTCATTGACAGATGTTGCAAGAGGCTGCTTGAA 780
DB 721 TCTGTCAGAGTGAATTCAGAAATTCATTGACAGATGTTGCAAGAGGCTGCTTGAA 780
QY 781 GAGAGAGCGGCTTCTGCTTTCTGTTGTAAGCACTGTGGCTTTGCCAACACATACAT 840
DB 781 GAGAGAGCGGCTTCTGCTTTCTGTTGTAAGCACTGTGGCTTTGCCAACACATACAT 840
QY 841 TATTATCACTTACAGTCTGCAAGATCTGCAATTCAGTCTGCTGCTGCGAGAGACC 900
DB 841 TATTATCACTTACAGTCTGCAAGATCTGCAATTCAGTCTGCTGCTGCGAGAGACC 900
QY 901 TGTGTTGATGCAATCAAGTGCAGAGAAATCATGATATGATGCAAGAAATTAAGACC 960
DB 901 TGTGTTGATGCAATCAAGTGCAGAGAAATCATGATATGATGCAAGAAATTAAGACC 960
QY 961 CCAGCTCTTACCCCGGTGTCTGAACTCTCAGGCTTCAACCATGATCGAGAGAGCAAT 1020
DB 961 CCAGCTCTTACCCCGGTGTCTGAACTCTCAGGCTTCAACCATGATCGAGAGAGCAAT 1020
QY 1021 GTGCTTGAAGAAATTAAGACACCTTTCTAAATGCTCAACAAAGTGCCTCCGCTCT 1080
DB 1021 GTGCTTGAAGAAATTAAGACACCTTTCTAAATGCTCAACAAAGTGCCTCCGCTCT 1080
QY 1081 TCAGGAGAGCATATACAGTCCCTGATGATGATGTTTAAATTAACCAAGCAGGCTGCC 1140
DB 1081 TCAGGAGAGCATATACAGTCCCTGATGATGATGTTTAAATTAACCAAGCAGGCTGCC 1140
QY 1141 CCGAATTCACAAAGGTTAATTAATTCACAGGTACTTCCGAAGATCCAGTTTACAGCG 1200
DB 1141 CCGAATTCACAAAGGTTAATTAATTCACAGGTACTTCCGAAGATCCAGTTTACAGCG 1200
QY 1201 TCAGTTTGGTGGTCAACCGGAGCTGAAACATGATGAAGAACAAGAAATGAAACATCTTC 1260
DB 1201 TCAGTTTGGTGGTCAACCGGAGCTGAAACATGATGAAGAACAAGAAATGAAACATCTTC 1260
QY 1261 CCGCACACTGCGGGGCTCAACAAGACCTTACTCAGCTTTCACAGGAGATGTCATCAG 1320
DB 1261 CCGCACACTGCGGGGCTCAACAAGACCTTACTCAGCTTTCACAGGAGATGTCATCAG 1320
QY 1321 CTGCTCATCCCGAGAGAGAGATGCTGCTTATGAAACAGACGTTTCAGAGCG 1380
DB 1321 CTGCTCATCCCGAGAGAGAGATGCTGCTTATGAAACAGACGTTTCAGAGCG 1380
QY 1381 AGGGGTGGTCCCGTCTGTCACACAGAGTGTGCGAAGAAATGACAGAGAGAGTG 1440
DB 1381 AGGGGTGGTCCCGTCTGTCACACAGAGTGTGCGAAGAAATGACAGAGAGAGTG 1440
QY 1441 ACCGTGCCACGCCCAAGCCCAACACAGTGAAGATCAGCACCGTGAATCTTGTGAG 1500
DB 1441 ACCGTGCCACGCCCAAGCCCAACACAGTGAAGATCAGCACCGTGAATCTTGTGAG 1500
QY 1501 AATAGCAGTGTGTATCCCCCACCAGCTACTTGAATGCTGTGCACTGGGGGAGCT 1560
DB 1501 AATAGCAGTGTGTATCCCCCACCAGCTACTTGAATGCTGTGCACTGGGGGAGCT 1560
QY 1561 GCGGACAGAGAGAGATTCGCGCAGAGAGCATCCACTTTAAGGCCCCAGGCTCAAG 1620
DB 1561 GCGGACAGAGAGAGATTCGCGCAGAGAGCATCCACTTTAAGGCCCCAGGCTCAAG 1620
QY 1621 CCGGAGACCGCGGCTCTTAACAGATGCAACGGGACTGCAAGGCGGCTTTTCTCAGCGGA 1680
DB 1621 CCGGAGACCGCGGCTCTTAACAGATGCAACGGGACTGCAAGGCGGCTTTTCTCAGCGGA 1680
QY 1681 GAAAAACCTTTTGGCACTGTGAACTCCGCGCGGACTGTGAAGAAATGATGCTCGGACCC 1740
DB 1681 GAAAAACCTTTTGGCACTGTGAACTCCGCGCGGACTGTGAAGAAATGATGCTCGGACCC 1740
QY 1741 ATCATTCATGAGAGAGACCAAGCACTCTCCGGGCTCTCCGGTCTCTCCCTTGCAG 1800
DB 1741 ATCATTCATGAGAGAGACCAAGCACTCTCCGGGCTCTCCGGTCTCTCCCTTGCAG 1800
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QY 1801 ATGATGGGGCGCATCTGTCTGCGACGCTGAGGGTGGGAAGCTTCAAGTGGAGAGGCT 1860
DB 1801 ATGATGGGGCGCATCTGTCTGCGACGCTGAGGGTGGGAAGCTTCAAGTGGAGAGGCT 1860
QY 1861 AACTTAATGTCGCTCTTAAAGCAATCAATGCTTCTCTGTTTACCGTAGTGGGTTGAC 1920
DB 1861 AACTTAATGTCGCTCTTAAAGCAATCAATGCTTCTCTGTTTACCGTAGTGGGTTGAC 1920
QY 1921 AAGTTTCTGCTTAAAT 1980
DB 1921 AAGTTTCTGCTTAAAT 1980
QY 1981 ATTTTCTTCCATCTGTTCAAGAAACGTAATCTGTTTCAATCTTTA 2030
DB 1981 ATTTTCTTCCATCTGTTCAAGAAACGTAATCTGTTTCAATCTTTA 2030
RESULT 2
AAF32674
ID AAF32674 standard; cDNA; 2317 BP.
XX AAF32674;
AC AAF32674;
DT 22-MAR-2001 (first entry)
XX
DE Human cDNA encoding intracellular signalling molecule INTRA37.
XX
KW Human; intracellular signalling molecule; INTRA; immunosuppressive;
KW cytosolic; neuroprotective; nootropic; antiarteriosclerotic; cancer;
KW antiinflammatory; anti-HIV; neuroleptic; antibacterial; antifungal;
KW antiviral; antiparasitic; antihelminthic; antiparkinsonian; AIDS;
KW cell proliferative disorder; arteriosclerosis autoimmune; epilepsy;
KW inflammatory disorder; Addison's disease; gastrointestinal disorder;
KW neurological disorder; Parkinson's disease; Creutzfeldt-Jakob disease;
KW mental disorder; schizophrenia; anxiety; ss.
XX
OS Homo sapiens.
XX
PN MO200077040-A2.
XX
PD 21-DEC-2000.
XX
PF 16-JUN-2000; 2000MO-US016636.
XX
PR 16-JUN-1999; 99US-0139566P.
PR 17-AUG-1999; 99US-0149640P.
PR 09-NOV-1999; 99US-0164417P.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Yue H, Tang YT, Hillman JL, Lal P, Bandman O, Baughn MR;
PI Azimzai Y, Yang J, Reddy R, Lu DM;
DR WPI; 2001-025334/03.
DR P-PSDB; AAB64405.
XX
PT New human intracellular signalling molecules, useful for the diagnosis,
PT prevention and treatment of cell proliferative, autoimmune, inflammatory,
PT neurological, gastrointestinal, reproductive and developmental disorders.
XX
PS Claim 5; Page 182-183; 192pp; English.
XX
CC Sequences AAF3638 - AAF3689 represent cDNA encoding human intracellular
CC signalling molecules INTRA1 - INTRA52, represented in AAB64369 -
CC AAB64420. Modulators of the intracellular signalling molecules of the
CC invention exhibit immunosuppressive; cytosolic; neuroprotective;
CC nootropic; antiarteriosclerotic; antiinflammatory; anti-HIV; neuroleptic;
CC antibacterial; antifungal; antiviral; antiparasitic; antihelminthic; and
CC antiparkinsonian activity. INTRA polypeptides their agonists and
CC antagonists are useful for the treatment of a condition associated with
CC decreased or increased expression of functional INTRA. Disorders
CC associated with abnormal INTRA expression or activity include cell
CC proliferative disorders e.g. arteriosclerosis and cancers; autoimmune or

CC inflammatory disorders e.g. Addison's disease and acquired
CC immunodeficiency syndrome (AIDS); viral, bacterial, fungal, parasitic,
CC protozoal and helminthic infections; gastrointestinal disorders e.g.
CC dysphagia and irritable bowel syndrome; neurological disorders e.g.
CC epilepsy and Parkinson's disease; prion diseases e.g. Creutzfeldt-Jakob
CC disease and mental disorders e.g. anxiety, schizophrenia and Tourette's
CC disorder. Antibodies immuno specific for the INTRA proteins may also be
CC useful in the diagnosis of the above disorders
XX
SQ Sequence 2317 BP; 676 A; 554 C; 545 G; 542 T; 0 U; 0 Other;
Query Match 86.9%; Score 1821.4; DB 4; Length 2317;
Best Local Similarity 99.9%; Pred. No. 2.3e-104;
Matches 1822; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 208 GCCGACAGCATGTCGCCGGGGGCCGAGAGGTGACCCGGCTCACGGAGACACCTACCGG 267
DB 30 GCCGACAGCATGTCGCCGGGGGCCGAGAGGTGACCCGGCTCACGGAGACACCTACCGG 89
QY 268 AATGTTATGGAACAGTTCAATCTGCGCTGCGCAATTTATTAACCTGGGAAAAATTTAT 327
DB 90 AATGTTATGGAACAGTTCAATCTGCGCTGCGCAATTTATTAACCTGGGAAAAATTTAT 149
QY 328 GAGAAAGCTGTAACGCTATGATCTGCGAGAAAAGCTTACTAGATGAGTGGCCCAAG 387
DB 150 GAGAAAGCTGTAACGCTATGATCTGCGAGAAAAGCTTACTAGATGAGTGGCCCAAG 209
QY 388 ATGCGTGAAGTTCACATGCGGTGCCCGGTGTCACTGAACTGAGACATGCTTCATAGAG 447
DB 210 ATGCGTGAAGTTCACATGCGGTGCCCGGTGTCACTGAACTGAGACATGCTTCATAGAG 269
QY 448 ATTTCAAGTACCCCAAGAACTCAACAGAGCTTGAATTAATTTAAAAATTTCCAC 507
DB 270 ATTTCAAGTACCCCAAGAACTCAACAGAGCTTGAATTAATTTAAAAATTTCCAC 329
QY 508 AAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTGACGCTGAATATATGAACGCA 567
DB 330 AAGAGATTATCCATGAGCTGAGAGAAAGATGAACTTGACGCTGAATATATGAACGCA 389
QY 568 ACTCTAAAAAGATACCAACAGAACACAGATTAATTAAGTCTTTGAGAAATCCCA 627
DB 390 ACTCTAAAAAGATACCAACAGAACACAGATTAATTAAGTCTTTGAGAAATCCCA 449
QY 628 GCTGAGTGAAGAAATGCAAGAAAGCAAGAAAGCCGAAGACCTCAATATGA 687
DB 450 GCTGAGTGAAGAAATGCAAGAAAGCAAGAAAGCCGAAGACCTCAATATGA 509
QY 688 CACAAAGAAATGATGATGAGAGACCGTTACTTCTGTCAGAGTGAATCCAGAAATTC 747
DB 510 CACAAAGAAATGATGATGAGAGACCGTTACTTCTGTCAGAGTGAATCCAGAAATTC 569
QY 748 ATTCAGATGCTTGAAGAGGCTTGTGTAAGAGAGAGGCGCTTCTGCTTCTGCTT 807
DB 570 ATTCAGATGCTTGAAGAGGCTTGTGTAAGAGAGAGGCGCTTCTGCTTCTGCTT 629
QY 808 GATTAACATGTCGCTTGAAGAACCATATATATATATATATATATATATATATATAT 867
DB 630 GATTAACATGTCGCTTGAAGAACCATATATATATATATATATATATATATATATAT 689
QY 868 CTGAATTCGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 927
DB 690 CTGAATTCGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 749
QY 928 AAAATCATGATATATGATCGAAGAAATTAAGACCCGCTTACCCCGTGTGGAAGT 987
DB 750 AAAATCATGATATATGATCGAAGAAATTAAGACCCGCTTACCCCGTGTGGAAGT 809
QY 988 CCGCAGGCTTCAACCATGATCGAAGAAAGCAATGCTGTTAGAAAGATTAAGACACCTT 1047
DB 810 CCGCAGGCTTCAACCATGATCGAAGAAAGCAATGCTGTTAGAAAGATTAAGACACCTT 869
QY 1048 TCTAAATGCTACCAAAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1107

Dp	870	CTTAATGCTCACCMAAAGATGCCCCCGGCTCTTTCAGGCAAGCATATACAGTCCCTTG	923
Qy	1108	ATCGATATGTTTAAATPAACCCAGCCAGCGCTGCCGGAATTCACAAAGGTAAATATATCA	1167
Dp	930	ATCGATATGTTTAAATPAACCCAGCCAGCGCTGCCGGAATTCACAAAGGTAAATATATCA	989
Qy	1168	ACAGGTACTCTCCGAGATCCAGTTCATACAGGGATAGATTGGATTGGCAAGGGAAGTGAAC	1227
Dp	930	ACAGGTACTCTCCGAGATCCAGTTCATACAGGGATAGATTGGATTGGCAAGGGAAGTGAAC	1049
Qy	1228	ATGATGAAGAAGCAGAAAGTGAAGACATCTTCCGCACTGCGGGCTCCAAACAAGAC	1287
Dp	1050	ATGATGAAGAAGCAGAAAGTGAAGACATCTTCCGCACTGCGGGCTCCAAACAAGAC	1109
Qy	1288	TTACTCAGCTTTGGCA CAGGAGATGTCATACAGCTGCTCATTCCTCCAGAGAAGATGAGC	1347
Dp	1110	TTACTCAGCTTTGGCA CAGGAGATGTCATACAGCTGCTCATTCCTCCAGAGAAGATGAGC	1169
Qy	1348	TGGCTCTATGGAAGAACAGACGCTGCCAAGGCGAGGGGTTGGTTCCGCTCGTGAACAG	1407
Dp	1170	TGGCTCTATGGAAGAACAGACGCTGCCAAGGCGAGGGGTTGGTTCCGCTCGTGAACAG	1229
Qy	1408	AAATTGCTGGAAGAAATGAGACAGAACAGTGAACGTTGCCACAGCCCAACCA	1467
Dp	1230	AAATTGCTGGAAGAAATGAGACAGAACAGTGAACGTTGCCACAGCCCAACCA	1289
Qy	1468	GTGAGAACATTCAGACCGGTGAACCTTGCTAGAAATACACATGTTGTATCCCCCAACC	1527
Dp	1230	GTGAGAACATTCAGACCGGTGAACCTTGCTAGAAATACACATGTTGTATCCCCCAACC	1349
Qy	1528	GACTACTTGAATGCTTGTCCATGAGGAGGAGCTGCCGACAGAGAGCAGATTCGGCCAGG	1587
Dp	1350	GACTACTTGAATGCTTGTATTCATGAGGAGGAGCTGCCGACAGAGAGCAGATTCGGCCAGG	1409
Qy	1588	ACGACATCCACTTTTAAAGCCCCAGCGTCCAAAGCCCCAGACCCGGGCTCTTAACATGCC	1647
Dp	1410	ACGACATCCACTTTTAAAGCCCCAGCGTCCAAAGCCCCAGACCCGGGCTCTTAACATGCC	1469
Qy	1648	AACGGGACGTGCAAAAGCCCGCTTTTCTCAGCGGAGAAACCCCTTTGGCACTGTGAATCTC	1707
Dp	1470	AACGGGACGTGCAAAAGCCCGCTTTTCTCAGCGGAGAAACCCCTTTGGCACTGTGAATCTC	1529
Qy	1708	CGCCCGACCTGTGAAGCATGATGCGTCCGACCCATCATTCGATGAGAGACAGCCAMGA	1767
Dp	1530	CGCCCGACCTGTGAAGCATGATGCGTCCGACCCATCATTCGATGAGAGACAGCCAMGA	1589
Qy	1768	CTCTCCGGGGGCTCTCGGGTCTCTCCCTTGGGGAATGATGGGCGCATCTCTGTGCGACGT	1827
Dp	1530	CTCTCCGGGGGCTCTCGGGTCTCTCCCTTGGGGAATGATGGGCGCATCTCTGTGCGACGT	1649
Qy	1828	GCTGACGGTCCGGGAGCTTTCAGTGAAGAGGCTTAATCTTAATGTTCGCTGTCTTAAGCAA	1887
Dp	1650	GCTGACGGTCCGGGAGCTTTCAGTGAAGAGGCTTAATCTTAATGTTCGCTGTCTTAAGCAA	1709
Qy	1888	TCATGCTCTCTCTGTTTCAAGTATGGGTGACAAAGTTTCGCTTTAAAGATAATGAT	1947
Dp	1710	TCATGCTCTCTCTGTTTCAAGTATGGGTGACAAAGTTTCGCTTTAAAGATAATGAT	1769
Qy	1948	AATAGTCAATGACAGAGCTCAGACCTTAATAAATATTTCTTCTTATCTGTTCAGAAAC	2007
Dp	1770	AATAGTCAATGACAGAGCTCAGACCTTAATAAATATTTCTTCTTATCTGTTCAGAAAC	1829
Qy	2008	AGTAACTTGGTTTCATATCTTTA	2030
Dp	1830	AGTAACTTGGTTTCATATCTTTA	1852

03-JUN-2004 (first entry)
Human protein encoding cDNA SEQ ID NO:39.
respiratory; cytosolic; antiarthritic; antiinflammatory;
gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
antirheumatic; gene therapy; molecular weight marker; chromosome marker;
chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
inflammatory condition; arthritis; inflammatory bowel disease;
Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
graft versus host disease; human; gene; ss.
Homo sapiens.
WO2004009834-A2.
29-JAN-2004.
19-JUL-2002; 2002WO-US022858.
21-JUN-2001; 2001US-0306971P.
28-MAR-2002; 2002US-00112944.
(NVEU-) NVEUO INC.
Tang Y, Yang Y, Wang G, Zhang J, Ren F, Xue A, Wang J;
Wehrman T, Ghosh MJ, Wang D, Zhao QA, Wang Z;
WPI: 2004-143291/14.
P-PSDB; ADM87190.
New isolated polynucleotides and polypeptides, useful for treating, e.g.,
cancer, lung or liver fibrosis, arthritis, inflammatory bowel disease,
Crohn's disease, rheumatoid arthritis, diabetes mellitus type 1 or graft
versus host disease.
Claim 1; SEQ ID NO 39; 591pp; English.
The present invention describes an isolated polynucleotide (1): (a)
comprising a nucleotide sequence selected from SEQ ID NO:1-244; or (b)
which encodes a polypeptide with biological activity, where the
polynucleotide hybridises to (1) under stringent hybridisation conditions
or has greater than 99% sequence identity with (1). (1) has respiratory,
cytosolic, antiarthritic, antiinflammatory, gastrointestinal,
antibacterial, immunosuppressive, antidiabetic and antirheumatic
activities, and can be used in gene therapy. (1) can be used for
generating polynucleotides encoding chimeric or fusion proteins and
heterologous protein sequences. The polynucleotides can be used to
express recombinant protein for analysis, characterisation or therapeutic
use; as markers for tissues in which the corresponding protein is
preferentially expressed; as molecular weight markers on gels; as
chromosome markers or tags to identify chromosomes or to map related gene
positions; to compare with endogenous DNA sequences in patients to
identify potential genetic disorders; as probes to hybridise and discover
genes, related DNA sequences; as a source of information to derive PCR
primers for genetic fingerprinting; as a probe to substract-out known
sequences in the process of discovering other novel polynucleotides; for
selecting and making oligomers for attachment to a gene chip or other
support, including for examination of expression patterns; to raise anti-
protein antibodies using DNA immunisation techniques; and as an antigen
to raise anti-DNA antibodies or elicit another immune response. The
polynucleotides and polypeptides can also be used as nutritional sources
or supplements, e.g. as a protein or amino acid supplement, as a carbon
source, as a nitrogen source or as a source of carbohydrates. The
polynucleotides and polypeptides can also be used treat cancer. The
compositions are useful for promoting better or faster closure of non-
healing wounds, for the generation and regeneration of tissues, for gut
protection or regeneration and treatment of lung or liver fibrosis,
reperfusion injury in various tissues, and conditions resulting from
systemic cytokine damage. The compositions can also be used to treat
inflammatory conditions (e.g. arthritis, inflammatory bowel disease or
Crohn's disease), sepsis, rheumatoid arthritis, diabetes mellitus type 1
or graft versus host disease. The present sequence represents a novel

CC human polynucleotide sequence from the present invention. N.B. The
CC sequences for this patent were obtained from the USPTO web site from an
CC equivalent US patent US20040048249A1.

SO Sequence 2471 BP; 681 A; 634 C; 585 G; 571 T; 0 U; 0 Other;

Query Match 72.3%; Score 1514.6; DB 12; Length 2471;
Best Local Similarity 99.7%; Pred. No. 1.6e-251;
Matches 1528; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

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QY 499 AATTCCAGAAAGATTTATCCATGAGCTGGAGAGAGATAGAACTTTGACGTGAATAT 558
DB 1 AATTCCAGAAAGATTTATCCATGAGCTGGAGAGAGATAGAACTTTGACGTGAATAT 60
QY 559 ATGACGCACTCTTAAAGATACCAACAGAAACAGAAATTAATAGATCTTTGGAG 618
DB 61 ATGACGCACTCTTAAAGATACCAACAGAAACAGAAATTAATAGATCTTTGGAG 120
QY 619 AATTCCTCAAGCTGATGGAAGAGATCAGAAAGAAAGCCAGAGACCCGAAACGCACTC 678
DB 121 AATTCCTCAAGCTGATGGAAGAGATCAGAAAGAAAGCCAGAGACCCGAAACGCACTC 180
QY 679 AATATGAAACAGAAAGATTTAGTATGTGAGACCCCTTACTTCTGCTGAGTGAATC 738
DB 181 AATATGAAACAGAAAGATTTAGTATGTGAGACCCCTTACTTCTGCTGAGTGAATC 240
QY 739 CAGAAATTCATTCAGATGGTTCAGAAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTGC 798
DB 241 CAGAAATTCATTCAGATGGTTCAGAAAGAGGCTCTGCTTGAAGAGAGAGGCGCTTGC 300
QY 799 TTTCTGTTGATTAAGACATGTGGCTTTGCAACCAATACATTAATATCACTTAAGTCT 858
DB 301 TTTCTGTTGATTAAGACATGTGGCTTTGCAACCAATACATTAATATCACTTAAGTCT 360
QY 859 GGAGAACTCTGATTTCCAGAGCTGCTGGTGGCAGAGACCTGTGTTGATGCAATCAA 918
DB 361 GGAGAACTCTGATTTCCAGAGCTGCTGGTGGCAGAGACCTGTGTTGATGCAATCAA 420
QY 919 GTGCCAGAGAAATCATGATATGATCGAAGAAATTAAGACCCAGCTTACCCCGT 978
DB 421 GTGCCAGAGAAATCATGATATGATCGAAGAAATTAAGACCCAGCTTACCCCGT 480
QY 979 TCTGGAATCTCTCAGGCTTACCCATGATCGAGAGAGCAATGTGTTAGAGAAATAC 1038
DB 481 TCTGGAATCTCTCAGGCTTACCCATGATCGAGAGAGCAATGTGTTAGAGAAATAC 540
QY 1039 GACACCCCTTTAAAGTCTCAACCAAGATGCCCCGCTCTTCAAGCAGAGATATACC 1098
DB 541 GACACCCCTTTAAAGTCTCAACCAAGATGCCCCGCTCTTCAAGCAGAGATATACC 600
QY 1099 AGTCCCTTATGATGATTTTAAATACCAAGCAGGCTGCCCCGAATTCACAAAGGATA 1158
DB 601 AGTCCCTTATGATGATTTTAAATACCAAGCAGGCTGCCCCGAATTCACAAAGGATA 660
QY 1159 AATTAATTCACAGATCTTCCAGAGATCCCAAGTTTACAGGATCACTTTGTTGCAACG 1218
DB 661 AATTAATTCACAGATCTTCCAGAGATCCCAAGTTTACAGGATCACTTTGTTGCAACG 720
QY 1219 GACATGAAATGATGGAAGAGAGAAAGTGAAGACCATCTTCCCGACACTGGGGCTCC 1278
DB 721 GACATGAAATGATGGAAGAGAGAAAGTGAAGACCATCTTCCCGACACTGGGGCTCC 780
QY 1279 AACAGACCTTACTAGCTTTTGCACAGGAGATGTATCATCAGCTGTCTACCCCGAGAG 1338
DB 781 AACAGACCTTACTAGCTTTTGCACAGGAGATGTATCATCAGCTGTCTACCCCGAGAG 840
QY 1339 AAGGATGCTGCTCTATGAGAGACGAGCTGTCCAGGCGAGGGGTTGTTCCCGTGC 1398
DB 841 AAGGATGCTGCTCTATGAGAGACGAGCTGTCCAGGCGAGGGGTTGTTCCCGTGC 900
QY 1399 TCGTACAGAGATGTTGCTGAGAGAAATGAGACAGAGAGAGTACCGTGGCCACGCCAACG 1458
DB 901 TCGTACAGAGATGTTGCTGAGAGAAATGAGACAGAGAGAGTACCGTGGCCACGCCAACG 960
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QY 1459 CCCACACAGTGGAGAGATCAGACCGTGAATCTGTGAGAAATGAGCTGTTCATC 1518
DB 961 CCCACACAGTGGAGAGATCAGACCGTGAATCTGTGAGAAATGAGCTGTTCATC 1020
QY 1519 CCCCACCCGACTTCTTGAATCTTGTCCATGGGGGACAGCTCCGACAGAGAGAGAT 1578
DB 1021 CCCCACCCGACTTCTTGAATCTTGTCCATGGGGGACAGCTCCGACAGAGAGAGAT 1080
QY 1579 TCGGTCAGAGACGATCCATCTTTAAGGCCCCAGCGTCCAGGCCGAGAGCGGCTCT 1638
DB 1081 TCGGTCAGAGACGATCCATCTTTAAGGCCCCAGCGTCCAGGCCGAGAGCGGCTCT 1140
QY 1639 AACGATGCCAAGCGGACTGCAAGAGCGGCTTTCTAGCGGAGAGAAACCCCTTGGCACT 1698
DB 1141 AACGATGCCAAGCGGACTGCAAGAGCGGCTTTCTAGCGGAGAGAAACCCCTTGGCACT 1200
QY 1699 GTGAAATCTCCGCGGACTGTGAGAGATGCTGCTGCGCAACCATATTCGATGAGAGAC 1758
DB 1201 GTGAAATCTCCGCGGACTGTGAGAGATGCTGCTGCGCAACCATATTCGATGAGAGAC 1260
QY 1759 AGCGAGAGACTCTCCCGGCGCTCTCCGCTTCTCCCTTGGGAAATGATGGCGCATCTGT 1818
DB 1261 AGCGAGAGACTCTCCCGGCGCTCTCCGCTTCTCCCTTGGGAAATGATGGCGCATCTGT 1320
QY 1819 CTGCCAGTGTGACGCTGCGGGAAGCTTCAGTGAAGAGGCTTAATGTGCGCTGC 1878
DB 1321 CTGCCAGTGTGACGCTGCGGGAAGCTTCAGTGAAGAGGCTTAATGTGCGCTGC 1380
QY 1879 TTAAGCAATCATG-CTTCTGTGTTTACAGTATGTTGGTTGACAACTTCTGCTTTAAG 1937
DB 1381 TTAAGCAATCATG-CTTCTGTGTTTACAGTATGTTGGTTGACAACTTCTGCTTTAAG 1440
QY 1938 ATTAATGATTAATGCTTAATGACCGAGCTCAGCCATTTAAATATTTCTCTATCTG 1997
DB 1441 ATTAATGATTAATGCTTAATGACCGAGCTCAGCCATTTAAATATTTCTCTATCTG 1500
QY 1998 TTCAAGAAACAGTAAACTGTTTCAATCTTTA 2030
DB 1501 TTCAAGAAACAGTAAACTGTTTCAATCTTTA 1533

RESULT 4
ADM87430
ID ADM87430 standard; cDNA; 1510 BP.
XX
AC ADM87430;
XX
DT 03-JUN-2004 (first entry)
XX
DE Human EST derived nucleotide sequence SEQ ID NO:523.
XX
KW respiratory; cytosolic; antiarthritic; antiinflammatory;
XX gastrointestinal; antibacterial; immunosuppressive; antidiabetic;
XX antihistematic; gene therapy; molecular weight marker; chromosome marker;
XX chromosome tag; genetic fingerprinting; nutritional supplement; cancer;
XX inflammatory condition; arthritis; inflammatory bowel disease;
XX Crohn's disease; sepsis; rheumatoid arthritis; diabetes mellitus type 1;
XX graft versus host disease; human; expressed sequence tag; EST; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2004009834-A2.
XX
PD 29-JAN-2004.
XX
PF 19-JUL-2002; 2002WO-US022858.
XX
PR 21-JUL-2001; 2001US-0306971P.
XX
PR 28-MAR-2002; 2002US-00112944.
XX
PA (NUVE-) NUVELO INC.
XX
```


QY 1531 TACTTGAATGCTTTCATGAGGAGGAGCTGCGACAGAGACAGATTGCGCCAGAGG 1590
 DB 1321 TACTTGAATGCTTTCATGAGGAGGAGCTGCGACAGAGACAGATTGCGCCAGAGG 1380
 QY 1591 ACATTCACCTTTTAAAGGCCCCAGGCTTCAGAGCCCGGCTCTTAACGATGCGAAC 1650
 DB 1381 ACATTCACCTTTTAAAGGCCCCAGGCTTCAGAGCCCGGCTCTTAACGATGCGAAC 1440
 QY 1651 GGGACTGCAAGCCGCTTTTCTCAGCGGAGAAACCCCTTTCCTGCACTGTAACCTCCGC 1710
 DB 1441 GGGACTGCAAGCCGCTTTTCTCAGCGGAGAAACCCCTTTCCTGCACTGTAACCTCCGC 1500
 QY 1711 CCGACTGTGA 1720
 DB 1501 CCGACTGTGA 1510

RESULT 5
 ID ADR25944 standard; DNA; 2120 BP.
 AC ADR25944;
 DT 21-OCT-2004 (first entry)
 DE Breast cancer prognosis marker #1805.
 DE ds; breast cancer; prognosis; gene expression; diagnosis.
 KW Homo sapiens.
 OS WO2004065545-A2.
 PN 05-AUG-2004.
 XX 15-JAN-2004; 2004WO-US001100.
 XX 15-JAN-2003; 2003US-00342887.
 PR (ROSE-) ROSETTA INPHARMATICS LLC.
 PA (NECA-) NETHERLANDS CANCER INST.
 PA Van't Veer LJ, He Y;
 PL WPI; 2004-593473/57.
 DR Classifying a breast cancer patient according to prognosis comprises
 XX determining the similarity between the level of expression of each of
 PT five genes in a cell sample taken from patient, to control levels.
 PS Disclosure; SEQ ID NO 1805; 226bp; English.
 XX
 CC The invention relates to a method of classifying a breast cancer patient
 CC according to prognosis by determining the similarity between the level of
 CC expression of each of five genes for which markers are listed in the
 CC specification, in a cell sample taken from the breast cancer patient, to
 CC control levels of expression for each respective five genes to obtain a
 CC patient similarity value. The methods are useful for classifying a breast
 CC cancer patient according to prognosis. Kits and computer program products
 CC are useful for data analysis using the diagnostic, prognostic and
 CC statistical methods of the invention. This sequence corresponds to a
 CC marker used in the method of the invention.
 CC
 SQ Sequence 2120 BP; 625 A; 513 C; 464 G; 518 T; 0 U; 0 Other;

Query Match 58.0%; Score 1216.4; DB 13; Length 2120;
 Best Local Similarity 98.3%; Pred. No. 3.7e-200;
 Matches 1229; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 232 GAGGAGTGAACCGGCTTCACGAGAGCACTACCGGAATGTTATGGAACAGTTCAATCT 291
 DB 292 GTGGGGGTGAACCTCCCTGTATTTAGATGCGCCAGATGTTATGGAACAGTTCAATCT 351

QY 292 GGGCTGCCAATTTATATAACCTGGGGAATAATTATGAAAGCTGTAAACCTATGATC 351
 DB 352 GGGCTGCCAATTTATATAACCTGGGGAATAATTATGAAAGCTGTAAACCTATGATC 411
 QY 352 CTGGCAGGAAAGGCTTACTACGATGAGTGGCCAGATCGTGAATGGCCACTGGGTCC 411
 DB 412 CTGGCAGGAAAGGCTTACTACGATGAGTGGCCAGATCGTGAATGGCCACTGGGTCC 471
 QY 412 CCCGTGTCACTGAACCTGGGACATGCTCATAGATTTCAAGTACCAAGAACTC 471
 DB 472 CCCGTGTCACTGAACCTGGGACATGCTCATAGATTTCAAGTACCAAGAACTC 531
 QY 472 AACGAGCTTGATGATAATTTTAAAAAATTCACAAAGAGATTATCATGAGCTGGAG 531
 DB 532 AACGAGCTTGATGATAATTTTAAAAAATTCACAAAGAGATTATCATGAGCTGGAG 591
 QY 532 AAGAGATAGAACTTGACGTGAATATATGAAACGCACTTAAAAAGATACCAACAGAA 591
 DB 592 AAGAGATAGAACTTGACGTGAATATATGAAACGCACTTAAAAAGATACCAACAGAA 651
 QY 592 CACAAAGATTAATTAAGATCTTTTGGAGAAATCCCAAGCTGAGTTGAAGATCAGAGG 651
 DB 652 CACAAAGATTAATTAAGATCTTTTGGAGAAATCCCAAGCTGAGTTGAAGATCAGAGG 711
 QY 652 AAAAGCCAAAGAGCCGAAACGCACTCAATATATGAAACAAAGAAATTAAGATGAGG 711
 DB 712 AAAAGCCAAAGAGCCGAAACGCACTCAATATATGAAACAAAGAAATTAAGATGAGG 771
 QY 712 ACCGTTACTTCTGTCAGAGTGAATCCAGAAATTCATTCAGATGTTGCAAGAGCT 771
 DB 772 ACCGTTACTTCTGTCAGAGTGAATCCAGAAATTCATTCAGATGTTGCAAGAGCT 831
 QY 772 CTGCTTGAAGAGAGGCGCTTCTGCTTTCTGTTGTAAGCACTGGCTTTGCAAG 831
 DB 832 CTGCTTGAAGAGAGGCGCTTCTGCTTTCTGTTGTAAGCACTGGCTTTGCAAG 891
 QY 832 CACATACATTAATTAATCACTTACAGTCTGACAGAACTACTGAATTCCAAGCTGCTGGTGG 891
 DB 892 CACATACATTAATTAATCACTTACAGTCTGACAGAACTACTGAATTCCAAGCTGCTGGTGG 951
 QY 892 CAGAGACCTGTGTGATGATGCATCAAAAGTGCAGAGAAATCATGATATGATGAGAA 951
 DB 952 CAGAGACCTGTGTGATGATGCATCAAAAGTGCAGAGAAATCATGATATGATGAGAA 1011
 QY 952 ATAAAGACCCGACCTCAACCCCGGTGTGGAATCTCTGAGCTTCAACCATGATGAG 1011
 DB 1012 ATAAAGACCCGACCTCAACCCCGGTGTGGAATCTCTGAGCTTCAACCATGATGAG 1071
 QY 1012 AGAAGCAATGTGTTAGAAAGATTAAGACACCTTTCTAATGCTCCAAAGATGCC 1071
 DB 1072 AGAAGCAATGTGTTAGAAAGATTAAGACACCTTTCTAATGCTCCAAAGATGCC 1131
 QY 1072 CCCGCTCTTCAAGCAGACATATACAGTCCCTTGATGATGATGTTAATACCCAGCC 1131
 DB 1132 CCCGCTCTTCAAGCAGACATATACAGTCCCTTGATGATGATGTTAATACCCAGCC 1191
 QY 1132 ACGGCTGCCCGGATTCAGAAAGGTTAATTAATCAACAGTACTTCGAGATGCCAGT 1191
 DB 1192 ACGGCTGCCCGGATTCAGAAAGGTTAATTAATCAACAGTACTTCGAGATGCCAGT 1251
 QY 1192 TTACAGGATCAAGTTTCGTTGTCACACGGACTGAACATGATGAGAAAGCAGAAAGTGAAG 1251
 DB 1252 TTACAGGATCAAGTTTCGTTGTCACACGGACTGAACATGATGAGAAAGTGAAG 1311
 QY 1252 ACCATCTTCCGACACACTGGGGGCTCCAAAGACCTTACTGACCTTTGACAGAGAGAT 1311
 DB 1312 ACCATCTTCCGACACACTGGGGGCTCCAAAGACCTTACTGACCTTTGACAGAGAGAT 1371
 QY 1312 GTCATCAGCTGCTCATCCCGAGAGAGAAAGATGAGTGGCTCTATGAGAAACAGAGCTG 1371
 DB 1372 GTCATCAGCTGCTCATCCCGAGAGAGAAAGATGAGTGGCTCTATGAGAAACAGAGCTG 1431
 QY 1372 TCCAAAGGCGAGGGGTGGTTCCGTCGTACAGAGATTGCTGAGAAAGAAATGAGACA 1431

|||||
Db 1432 TCACAGCGAGGAGGCTGTTGTTCCCTCGTCTGACACGAAGTTGCTGGAAGAAATGAGACA 1491
|||
Qy 1432 GAACAGTGAACCGTCCGACGACCAAGCCCAACCACTGAGAGACATCAG 1481
|||
Db 1492 GAACAGTGAACCGTCCGACGACCAAGCCCAACCACTGAGAGACATCAG 1541
|||
RESULT 6
ADV43099 ID ADV43099 standard; cDNA; 1221 BP.
XX
XX ADV43099;
AC
XX 10-MAR-2005 (first entry)
XX
XX DE Human psychoneuroendocrinimmune expressed sequence tag SEQ ID NO 727.
XX
XX microarray; psychoneuroendocrinimmune; chronic fatigue;
KM non-insulin dependent diabetes; allergy; immune disorder; inflammation;
KM cancer; neoplasm; infection; expressed sequence tag; ss.
XX
XX OS Homo sapiens.
XX
XX MO2004108899-A2.
XX
XX PD 16-DEC-2004.
XX
XX PF 04-JUN-2004; 2004MO-US017686.
XX
XX PR 04-JUN-2003; 2003US-0475915P.
XX
XX PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
XX PI Nicholson A, Vernon SD;
XX
XX DR WPI: 2005-031682/03.
XX
XX PT New microarray comprising probes for genes involved in
PT psychoneuroendocrinimmune (PNI) activity, useful in diagnosing a
PT condition associated with PNI activity, e.g., inflammatory or infectious
PT diseases.
XX
XX PS Claim 1; SEQ ID NO 727; 254bp; English.
XX
XX CC The invention relates to a new microarray which comprises probes for
CC genes involved in psychoneuroendocrinimmune (PNI) activity. The
CC microarray is useful in diagnosing a condition associated with PNI
CC activity, such as CFS, type-2 diabetes, allergic condition, inflammation,
CC cancer and infection. The present sequence represents a
CC psychoneuroendocrinimmune gene expressed sequence tag. Note the
CC specification mentions SEQ ID NO of up to 3314 but only sequences up to
CC SEQ ID NO 1829 are provided.
XX
XX SQ Sequence 1221 BP; 397 A; 279 C; 288 G; 257 T; 0 U; 0 Other;
Query Match 57.6%; Score 1206.4; DB 14; Length 1221;
Best Local Similarity 99.9%; P-adj. 1.9e-198;
Matches 1207; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 274 ATGGAACAGTTCAATCTGGGCTGCGAAATTTAATAAAGCTGGGAAATTTATGAGAA 333
|||
Db 1 ATGGAACAGTTCAATCTGGGCTGCGAAATTTAATAAAGCTGGGAAATTTATGAGAA 60
|||
Qy 334 GCTGTAAACGCTATGATCTCTGCGAGAGAAAGCTTACTAGATGAGTGGCCAGATCGGT 393
|||
Db 61 GCTGTAAACGCTATGATCTCTGCGAGAGAAAGCTTACTAGATGAGTGGCCAGATCGGT 120
|||
Qy 394 GAATTTGCCAATGGTCCCGCTGTCACATGAACTGGGACATGCTCATAGAGATTCA 453
|||
Db 121 GAATTTGCCAATGGTCCCGCTGTCACATGAACTGGGACATGCTCATAGAGATTCA 180
|||
Qy 454 AGTACCACAAAGAACTCAACGAGAGTCTTGATGAAAAATTTAAAAAATTCACAAAGAG 513
|||

|||||
Db 181 AGTACCACAAAGAACTCAACGAGAGTCTTGATGAAAAATTTAAAAAATTCACAAAGAG 240
|||
Qy 514 ATTATCATGAGCTGGAGAGAAAGATAGAACTTGAACCTGAAATATATGAAACGAACTCTA 573
|||
Db 241 ATTATCATGAGCTGGAGAGAAAGATAGAACTTGAACCTGAAATATATGAAACGAACTCTA 300
|||
Qy 574 AAAAGATACCAACAGAAACAAGAAATTAATAGATCTTTGGAGAAATCCCAAGCTGAG 633
|||
Db 301 AAAAGATACCAACAGAAACAAGAAATTAATAGATCTTTGGAGAAATCCCAAGCTGAG 360
|||
Qy 634 TTGAAGAAAGATCAGAAAGAAAGCCAGAGAAAGCCAGAAAGCACTCAATATGAAACAAA 693
|||
Db 361 TTGAAGAAAGATCAGAAAGAAAGCCAGAGAAAGCCAGAAAGCACTCAATATGAAACAAA 420
|||
Qy 694 GAAATGATGATGAGAGACCGTCTTCTGTCAGAGTGAATTCAGAAATTCATTGCA 753
|||
Db 421 GAAATGATGATGAGAGACCGTCTTCTGTCAGAGTGAATTCAGAAATTCATTGCA 480
|||
Qy 754 GATGATGCAAAAGAGCTCTGCTTGAAGAGAGAGGCTCTCTCTTCTGCTTCTGCTGATAG 813
|||
Db 481 GATGATGCAAAAGAGCTCTGCTTGAAGAGAGAGGCTCTCTCTTCTGCTTCTGCTGATAG 540
|||
Qy 814 CACTGTGCTTTGCAAAACCAT 873
|||
Db 541 CACTGTGCTTTGCAAAACCAT 600
|||
Qy 874 TCACAGCTGCTCGTGGCAGAGAGACCTGTGTTGATGCAATCAAGTCCAGAGAAATC 933
|||
Db 601 TCACAGCTGCTCGTGGCAGAGAGACCTGTGTTGATGCAATCAAGTCCAGAGAAATC 660
|||
Qy 934 ATGAATATGATGAGAAATTAAGACCCAGCTTACCCCGCTGTGGAATCTCTCAG 993
|||
Db 661 ATGAATATGATGAGAAATTAAGACCCAGCTTACCCCGCTGTGGAATCTCTCAG 720
|||
Qy 994 GCTTACCCATGATGAGAGAGAGCAATGTTGTTAGAAAGATTACAGACCTTTCTTAA 1053
|||
Db 721 GCTTACCCATGATGAGAGAGAGCAATGTTGTTAGAAAGATTACAGACCTTTCTTAA 780
|||
Qy 1054 TGCTCACCAAGAGTCCCGCTCTCTTCAAGCAGATATACAGTCCCTTATCAT 1113
|||
Db 781 TGCTCACCAAGAGTCCCGCTCTCTTCAAGCAGATATACAGTCCCTTATCAT 840
|||
Qy 1114 ATGTTTAATTAACCCAGCCAGCTGCTCCCGGAATTCACAAAGGTTAATTAATTCACAGGT 1173
|||
Db 841 ATGTTTAATTAACCCAGCCAGCTGCTCCCGGAATTCACAAAGGTTAATTAATTCACAGGT 900
|||
Qy 1174 ACTTCCGAAGATCCAGTTTACAGGATCAATTTGCTGCAACCGGACTGAATGATG 1233
|||
Db 901 ACTTCCGAAGATCCAGTTTACAGGATCAATTTGCTGCAACCGGACTGAATGATG 960
|||
Qy 1234 AAGAGCAGAAAGTGAAGACATCTTCCGACACCTGCGGCTCCACAGACCTTATCTC 1293
|||
Db 961 AAGAGCAGAAAGTGAAGACATCTTCCGACACCTGCGGCTCCACAGACCTTATCTC 1020
|||
Qy 1294 AGCTTTGACAGAGAGATGTCATCAAGCTGCTCATTCCTCCGAGAGAGAGATGGCTGCTC 1353
|||
Db 1021 AGCTTTGACAGAGAGATGTCATCAAGCTGCTCATTCCTCCGAGAGAGAGATGGCTGCTC 1080
|||
Qy 1354 TATGAGAAACAGAGAGTGTCCAAAGGAGAGGTTGGTTCCCGTGTGTACAGAAAGTTG 1413
|||
Db 1081 TATGAGAAACAGAGAGTGTGTCCAAAGGAGAGGTTGGTTCCCGTGTGTACAGAAAGTTG 1140
|||
Qy 1414 CTGGAAGAAATGAGACAGAGACATGACCTGTCACAGCCAGAGCCCAACCAAGTGA 1473
|||
Db 1141 CTGGAAGAAATGAGACAGAGACATGACCTGTCACAGCCAGAGCCCAACCAAGTGA 1200
|||
Qy 1474 AGCATCAG 1481
|||
Db 1201 AGCTTCAG 1208
|||

RESULT 7

AA573957
 ID AA573957 standard; cDNA, 1729 BP.
 XX
 AC AA573957;
 XX
 DT 13-FEB-2002 (first entry)
 XX
 DE DNA encoding novel human diagnostic protein #9761.
 XX
 KM Human; chromosome mapping; gene mapping; gene therapy; forensic;
 XX food supplement; medical imaging; diagnostic; genetic disorder; ss.
 XX
 OS Homo sapiens.
 XX MO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 30-MAR-2001; 2001MO-US008631.
 XX
 PR 31-MAR-2000; 2000US-00540217.
 XX 23-AUG-2000; 2000US-00649167.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Drmanac RT, Liu C, Tang YT;
 XX
 DR MPI: 2001-639362/73.
 XX
 DR P-PSDB; ABG09770.
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 XX diagnostics, forensics, gene mapping, identification of mutations
 XX PT responsible for genetic disorders or other traits and to assess
 XX biodiversity.
 XX
 PS Claim 1; SEQ ID NO 9761; 103bp; English.
 XX
 CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
 CC sequences. (I) is useful as hybridisation probes, polymerase chain
 CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
 CC and in recombinant production of (II). The polynucleotides are also used
 CC in diagnostics as expressed sequence tags for identifying expressed
 CC genes. (I) is useful in gene therapy techniques to restore normal
 CC activity of (II) or to treat disease states involving (II). (II) is
 CC useful for generating antibodies against it, detecting or quantitating a
 CC polypeptide in tissue, as molecular weight markers and as a food
 CC supplement. (II) and its binding partners are useful in medical imaging
 CC of sites expressing (II). (I) and (II) are useful for treating disorders
 CC involving aberrant protein expression or biological activities. The
 CC polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AA564197-AA594564 represent novel human diagnostic
 CC coding sequences of the invention. Note: The sequence data for this
 CC patent did not appear in the printed specification, but was obtained in
 CC electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pat_sequences
 CC
 SQ Sequence 1729 BP; 517 A; 426 C; 389 G; 397 T; 0 U; 0 Other;

Query Match 51.1%; Score 1071; DB 5; Length 1729;
 Best Local Similarity 95.1%; Pred. No. 4.1e-175;
 Matches 1205; Conservative 0; Mismatches 45; Indels 17; Gaps 9;

QY 232 GAGGAGGTGAACCGGCTGACGAGACACCTACCGGAATGTATGGAACGTTCAATCCT 291
 DB 277 GTGGGGGTGAACTCCCTGTATTTAGATTCGCCAATGTATTGGAACGTTCAATCCT 336
 QY 292 GGGCTGCGAAATTTATTAACCTGGGGAAATTTATGAGAAAGCTGTAAACGCTATGATC 351
 DB 337 GGGCTGCGAAATTTATTAACCTGGGGAAATTTATGAGAAAGCTGTAAACGCTATGATC 396

QY 352 CTGGCAGAAAAAGCCTACTACATGAGTGGCCAAAGATCGGTGAGATTGCACTGGTCC 411
 DB 397 CTGGCAGAAAAAGCCTACTACATGAGTGGCCAAAGATCGGTGAGATTGCACTGGTCC 456
 QY 412 CCCGTGTCAAC-TGAACTGGACATGCTCATAGATTTCAGTAACCAAGAAAC- 469
 DB 457 CCCGTGTCAACCTGAACCTGGACATGCTCATAGATTTCAGTAACCAAGAAAC- 516
 QY 470 TCAACGAGAGTCTT---GATGAAATTTTAAAAATTTCCCAAGAGATTATCATAGC 526
 DB 517 TCAACGAGAGTCTTGTAGTGAATAATTTTAAAAATTTCCCAAGAGATTATCATAGC 576
 QY 527 TGGAGAAAGATAGAACTT-GACGTGAATATATGAAACGCAACTCTAAAAAGATCAAA 585
 DB 577 TGGAGAAAGATAGAACTTGTGACGTGAATATATGAAACGCAACTCTAAAAAGATCAAA 636
 QY 586 ACAGAAACAGAAATTAATTAGAGTCTTTGAGAAAAATCCCAAGCTGATGAAAGATC 645
 DB 637 ACAGAAACAGAAATTAATTAGAGTCTTTGAGAAAAATCCCAAGCTGATGAAAGATC 696
 QY 646 AGAAGGAAAAAGCCAGAAAGCCGAAACGCACTCAATATGAAACAAAGAAATTTGATAT 705
 DB 697 AGAAGGAAAAAGCCAGAAAGCCGAAACGCACTCAATATGAAACAAAGAAATTTGATAT 756
 QY 706 GTGAGACCGTTACTTCTCGTCAGAGTGAATCC-AGAAATTCATTGCAATGGTTGCCAA 764
 DB 757 GTGAGACCGTTACTTCTCGTCAGAGTGAATCC-AGAAATTCATTGCAATGGTTGCCAA 816
 QY 765 AGAGGCTCTGCTTGAAGAGAGAGGCG-CTTCTGCTTTCTGTTGATAGACATG 818
 DB 817 AGAGGCTCTGCTTGAAGAGAGAGGCGCTTCTGCTTTCTGTTGATAGACATG 876
 QY 819 TGGCTTTGCAAA--CCACATATCATTTATCACTTACAGTCGACAACTAGTGAAT-C 875
 DB 877 TGGCTTTGCAAAAGCCACATATCATTTATCACTTACAGTCGACAACTAGTGAATTC 936
 QY 876 CAAGCTGCTCGGTGACAGAGACCTGTGTGATGTCATCAAAAGTCCAGAGAAATCA 934
 DB 937 CAAGCTGCTCGGTGACAGAGACCTGTGTGATGTCATCAAAAGTCCAGAGAAATCA 996
 QY 935 TGAATATGATCGAAGAAATTAAGACCCAGCTCTTACCCCGTGTGAACTGTCAGG 994
 DB 997 TGAATATGATCGAAGAAATTAAGACCCAGCTCTTACCCCGTGTGAACTGTCAGG 1056
 QY 995 CTTCACCCATGATCGAAGAAATGATGTTAGAAAGATTAAGACCCCTTCTTAAT 1054
 DB 1057 CTTCACCCATGATCGAAGAAATGATGTTAGAAAGATTAAGACCCCTTCTTAAT 1116
 QY 1055 GCTCACCAAGATGCCCCCGCTCTTACAGCAGAGATATACCACTCCCTTGATGATA 1114
 DB 1117 GCTCACCAAGATGCCCCCGCTCTTACAGCAGAGATATACCACTCCCTTGATGATA 1176
 QY 1115 TGTTTATTAACCCAGCAGCGCTGCCCGAATTCACAAAGGTAATTAATCAACAGTA 1174
 DB 1177 TGTTTATTAACCCAGCAGCGCTGCCCGAATTCACAAAGGTAATTAATCAACAGTA 1236
 QY 1175 CTTCGAAATCCAGTTTACAGCATGAGTTTGGTTGCAAGGGAGCTGAACATGATA 1234
 DB 1237 CTTCGAAATCCAGTTTACAGCATGAGTTTGGTTGCAAGGGAGCTGAACATGATA 1296
 QY 1235 AGAAGCAGAAATGTAAGACATCTTCCGCAACATCGCGGCTTCAACAAAGCCTTAATCA 1294
 DB 1297 AGAAGCAGAAATGTAAGACATCTTCCGCAACATCGCGGCTTCAACAAAGCCTTAATCA 1356
 QY 1295 GCTTTGCAAGGAGATGTCATCAGCTGCTCATCCCGAGAGAAAGATGCTGCTCT 1354
 DB 1357 GCTTTGCAAGGAGATGTCATCAGCTGCTCATCCCGAGAGAAAGATGCTGCTCT 1416
 QY 1355 ATGAGAAACAGACGTTGCTCAAGGCGAGGGGTTGGTTCCGCTGCTGTCACGAAGTTGC 1414
 DB 1417 ATGAGAAACAGACGTTGCTCAAGGCGAGGGGTTGGTTCCGCTGCTGTCACGAAGTTGC 1476
 QY 1415 TGAAGAAATTAAGACAGAAAGATGACCGTCCCAAGCCCAACCAAGATGAGAA 1474

Db 288 GAGATTTCAGATCCCAAGAACTCAAGAGAGTCTTGATGAAATTTTAAAAATTC 347
QY 505 CACAAAGAGATTATCCATGAGCTGAGAGAGAGATGAACTTGAGTGAATATATGAC 564
Db 348 CACAAAGAGATTATTCATGAGCTGAGAGAGAGATGAACTTGAGTGAATATATGAC 407
QY 565 GCAACTCTTAAAGATGTCACAAAGAGAAACAAGAGATTAATATGAGTGAAGATTC 624
Db 408 GCAACTCTTAAAGATGTCACAAAGAGAAACAAGAGATTAATATGAGTGAAGATTC 467
QY 625 CAAAGCTGATGTAAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 684
Db 468 CAAAGCTGATGTAAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 527
QY 685 GAAACAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 744
Db 528 GAAACAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 587
QY 745 TTCAATTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 798
Db 588 TTCAATTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 641

RESULT 13

ID ADX41953 standard; cDNA, 641 BP.

AC ADX41953;

DT 21-APR-2005 (first entry)

XX Human cDNA encoding colon cancer protein SEQ ID NO 990.

XX Cytostatic; Immunostimulant; therapy; diagnosis; colon cancer; neoplasm;

XX ss; gene.

XX Homo sapiens.

XX WO200274156-A2.

XX 26-SEP-2002.

XX 01-FEB-2002; 2002MO-US002870.

XX 02-FEB-2001; 2001US-0267400P.

XX 07-FEB-2001; 2001US-0267382P.

XX 11-MAY-2001; 2001US-0290322P.

XX 12-JUL-2001; 2001US-0305265P.

XX 16-AUG-2001; 2001US-0313077P.

XX (CORI-) CORIXA CORP.

XX Jiang Y, Chenault RA, Xu J, Indrias CY, Lodes MJ, Secrist H;

XX Carter D, Fanger GR, Smith CL, Durham M, Stoik JA;

XX WPI; 2003-040540/03.

XX Claim 1, SEQ ID NO 990; 244pp; English.

XX The invention relates to a new isolated nucleic acid. The nucleic acid,

XX polypeptides, antibodies are useful for diagnosing, preventing or

XX treating cancer, particularly colon cancer. The nucleic acid and

XX polypeptides are also useful in DNA strand invasion, antisense

XX inhibition, mutational analysis, nucleic acid purification, isolation of

XX transcriptionally active genes, blocking or transcription factor binding,

XX genome cleavage or in situ hybridization, and as enhancers of

XX transcription or biomarkers. The kits are useful for detecting antibody

XX binding. The present sequence represents a human cDNA encoding a colon

XX cancer protein.

XX SQ Sequence 641 BP; 217 A; 127 C; 154 G; 129 T; 0 U; 14 Other;

Query Match 27.5%; Score 576.2; DB 11; Length 641;

Best Local Similarity 97.3%; Pred. No. 6; 2e-90;

Matches 578; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 205 GCGGCGCAGCAGTATGTCGCGGCGGCGCGAGAGAGTGAACCGGCTCAAGAGACCACTAC 264
Db 48 GCGGCGCAGCAGTATGTCGCGGCGGCGCGAGAGAGTGAACCGGCTCAAGAGACCACTAC 107
QY 265 CGGATGTTATGGAACAGTTCATCTCTGGGCTCGGAAATTTAATTAACCTGGGGAAAAAT 324
Db 108 CGGATGTTATGGAACAGTTCATCTCTGGGCTCGGAAATTTAATTAACCTGGGGAAAAAT 167
QY 325 TATGAGAAAGCTGTAACGCTATGATCTGGCAGAGAAAGCTTAAGATGAGAGTGGCC 384
Db 168 TATGAGAAAGCTGTAACGCTATGATCTGGCAGAGAAAGCTTAAGATGAGAGTGGCC 227
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RESULT 14

ID ABK29726 standard; cDNA, 559 BP.

AC ABK29726;

DT 23-APR-2002 (first entry)

XX Colon adenocarcinoma-specific cDNA #252.

XX Human; colon adenocarcinoma; colon cancer; tumour; gene; ss.

XX Homo sapiens.

XX WO200196389-A2.

XX 20-DEC-2001.

XX 07-JUN-2001; 2001MO-US018574.

XX 09-JUN-2000; 2000US-0210667P.

XX 22-NOV-2000; 2000US-0252614P.

XX (CORI-) CORIXA CORP.

Sequence 539 BP; 191 A; 106 G; 132 G; 105 T; 0 U; 5 Other;

Query Match 24.8%; Score 520.8; DB 11; Length 539;

Best Local Similarity 98.7%; Pred. No. 2.1e-80;

Matches 522; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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Search completed: March 20, 2006, 13:54:24

Job time : 861 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 20, 2006, 13:39:51 ; Search time 8382 Seconds
(without alignments)
11699.562 Million cell updates/sec

Title: US-10-801-292-1

Perfect score: 2096

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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1: gb_est1.*
2: gb_est2.*
3: gb_est3.*
4: gb_hic.*
5: gb_est4.*
6: gb_est5.*
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8: gb_est7.*
9: gb_gss1.*
10: gb_gss2.*
11: gb_gss3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1223.4	58.4	3245	4	AK004918 Mus muscu
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4	950.2	45.3	1479	11	DQ051600 Pan trogl
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6	830	39.6	848	5	BUI84787 AGENCOURT
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ALIGNMENTS

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GENOMIC SURVEY SEQUENCE.
ACCESSION DQ051599
VERSION DQ051599.1 GI:66904813
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.
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Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fedel, A.M., Tanenbaum, D.M., Civeille, D., White, T.J., Smith, J.J., Adams, M.D. and Cargill, M.
A Scan for Positively Selected Genes in the Genomes of Humans and Chimpanzees
(et) PLOS Biol. 3 (6), E170 (2005)
JOURNAL PUBLISHED 15869325
REFERENCE 2 (bases 1 to 1479)
Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fedel, A.M., Tanenbaum, D.M., Civeille, D., White, T.J., Smith, J.J., Adams, M.D. and Cargill, M.
Direct Substitution
Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering them based on alignment. Translation starts at the beginning of alignment.
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Best Local Similarity 99.9%; Pred. No. 1e-290; 2; Indels 0; Gaps 0;
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 LOCUS
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 ACCESSION
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 VERSION
 AK004918.2
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 HTC; CAP trapper.
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 ORGANISM
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 REFERENCE
 1. Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning
 Meth. Enzymol. 303, 19-44 (1999)
 2. Carninci, P. and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 3. Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Komoto, H., Akiyama, J., Nishi, K., Katsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watanabe, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer
 Genome Res. 10 (11), 1757-1771 (2000)
 4. The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
 Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)
 5.

AUTHORS The PANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
 TITLE Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
 JOURNAL Nature 420, 563-573 (2002)
 REFERENCE 6 (bases 1 to 3245)
 AUTHORS Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanganaki, T., Hara, A., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hori, F., Imotani, K., Ishii, I., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, Y., Kojima, Y., Komou, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numasaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shibata, Y., Shingawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Tejima, Y., Toya, T., Yamamura, T., Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M. and Hayashizaki, Y.
 TITLE Direct Submission
 JOURNAL Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gscc.riken.jp, URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)
 COMMENT On Dec 10, 2002 this sequence version replaced gi:12836466. Please visit our web site (<http://genome.gsc.riken.jp/>) for further details.
 CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer 15' GAGAGAGAGGCGCGCCGCACTCGAGTCTTTTCTTTTCTTNN 3', cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence 15' GAGAGAGAGAGATCCCAAGATCGCAATTATTAATTAACCCCCCCCCC 3'. cDNA was cleaved with XhoI and SstI. Cloning sites, 5' end: SstI, 3' end: XhoI. Host: SOLR.
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924	AGAGAAAATCAATGAATATGAT	TCAGAAATAAAGCCCAAGCTCTACCCCGGTGTGCG	983			
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 Db 1100 CTTTCTAAATGCTCACAAAGATGCCCCCTCTCTTACGAGACATATATACAGTCC 1159
 QY 1104 CTTGATCGATATGTTTAAATACCGACGAGCGGTGCCCCGAATTCACAAAGGTTAAATA 1163
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 Db 1514 TGACACCGTGAAGAGCATGACAGCGTGAACCTTGTCTGAGATATAGCAGTTGTCTATCC 1573
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 QY 1868 ATGTCGCTGCTTAAGCAATCATGCTTCTGTCTTTCACGTAGTGGGTGACAGTTTC 1927
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 QY 1928 TGCTTTAAGTAAATGAGTAATAGTCTATATGACCGAGCTCAGGCAATTAATATTTTCT 1987
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 QY 1988 TCCTATTTCTGTTCAAGAAACAGTAACTTGTTCATCTTTTAAAAAATTTAAAAA 2047
 Db 2050 T-----TTCTATTCAAAAAGCAGTAATTTGGCTCAAAATTTTAAATTTTATTTAAG 2105
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Db 2106 AATAGCCAGATAA 2120
 RESULT 3
 AK008203
 LOCUS
 DEFINITION
 Mus musculus adult male small intestine cDNA, RIKEN full-length enriched library, clone:2010012D17 product:INSULIN RECEPTOR TYROSINE KINASE SUBSTRATE homolog (Homo sapiens), full insert sequence.
 ACCESSION
 AK008203
 VERSION
 AK008203.1 GI:12842246
 KEYWORDS
 HTC; CAP trapper.
 SOURCE
 Mus musculus (house mouse)
 ORGANISM
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning
 Meth. Enzymol. 303, 19-44 (1999)
 10349636
 2
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Komno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 11042159
 3
 Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Komno, H., Akiyama, J., Nishi, K., Kitsuai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Otsuka, E., Watanabe, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuyama, S., Kawai, D., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multichannel sequencing
 Genome Res. 10 (11), 1757-1771 (2000)
 11076861
 4
 The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
 Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)
 5
 The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
 Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
 Nature 420, 563-573 (2002)
 6
 (bases 1 to 2214)
 Adachi, J., Aizawa, K., Akahira, S., Akiyama, T., Arai, A., Aono, H., Arai, K., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanagaki, T., Hara, A., Hayatsu, N., Hiramoto, K., Hirooka, T., Hori, F., Imocani, K., Ishii, Y., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Komno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shibata, Y., Shihagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Teijima, Y., Toya, T., Yamamura, T., Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M. and Hayashizaki, Y.
 Direct Substitution
 Submitted (10-JUN-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gs.riken.jp, URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222.

Db 1491 AGTGCCTGTCATGAGGAGCCACTCAGACAAAGAGGAGGCTCCCAAGTGCCTTCTG 1550

Qy 1592 CATCCACCTTTAAGGCGCGGCTCCAGGCCGA-----GACGGGGGCTCTTAAGATG 1645

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Qy 1706 TCCGCCGACTGTCAGCAATGATGCTCTGGCAGCCCATCTTCAATG-AGAGACAGCCAA 1764

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Qy 1765 GAGCTCTCCCGGGGCTCTCCGCTTCTCCCTTGGGAAATGATGGCGCATCTGTGCA 1824

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Qy 1825 CGTGTCAGCGGTGCGGAGGCTTCAAGTGAAGGCTTAATGTGCGCTCTTAAGC 1884

Db 1790 AGCAGGCACTGTCAAGATTTGACAGAGTGCATGATGAAGCCCACTTGAGCAAT 1849

Qy 1885 AATCATGCTTCTCTGTTTCACTGATGTTGGTTGACAAGTTTCTGCTTTAAGTAAATG 1944

Db 1850 CAATGTACTTCTCAGATTTGACAGAGGTGGTT-ACACATTTCTGCTTTAAGTAAATG 1908

Qy 1945 AGTAATAGTCTAATGACAGCTCAGCCATTAATAATTTTCTTCTTCTTCTGTCAGA 2004

Db 1909 AG--TACCTTAGTGAATTAATCAATCATTTTGAATATTTTCTT---TTCTATTCAAA 1961

Qy 2005 AACGTAACCTTGCTTCAATCTTTAAAAAAGGCTTTTAAAAAAGGCTTTTAAAAA 2062

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RESULT 4

LOCUS: DQ051600 1479 bp DNA linear GSS 02-JUN-2005

DEFINITION: Pan troglodytes LOC55971 gene, VIRUAL TRANSCRIPT, partial

ACCESSION: DQ051600

VERSION: DQ051600.1 GI:66904814

KEYWORDS: GSS.

SOURCE: Pan troglodytes (chimpanzee)

ORGANISM: Pan troglodytes

REFERENCE: Eukaryotes: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Pan.

REFERENCE: 1 (bases 1 to 1479)

AUTHORS: Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fledel-Alon, A., Tanenbaum, D.M., Civeille, D., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.

TITLE: A Scan for Positively Selected Genes in the Genomes of Humans and Chimpanzees

JOURNAL: (er) PLoS Biol. 3 (6), E170 (2005)

PubMed 15869325

AUTHORS: Nielsen, R., Bustamante, C., Clark, A.G., Glanowski, S., Sackton, T.B., Hubisz, M.J., Fledel-Alon, A., Tanenbaum, D.M., Civeille, D., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.

COMMENT: Direct Submission

Submitted (05-MAY-2005) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA

This sequence was made by sequencing genomic exons and ordering them based on alignment. Translation starts at the beginning of alignment.

FEATURES

source

1..1479

Location/Qualifiers

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/mol_type="genomic DNA"

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Best Local Similarity 64.4%; Pred. No. 2,6e-183;

Matches 953; Conservative 0; Mismatches 526; Indels 0; Gaps 0;

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Qy 334 GCTGTAAAGCTATGATCTCTGCGAGAAAAGCTTACGATGGAAGTGGCAGATCGGT 393

Db 61 GCTGTAAAGCTATGATCTCTGCGAGAAAAGCTTACGATGGAAGTGGCAGATCGGT 120

Qy 394 GAGATTGCCACGTGGGTCCCCCGTGCATGAACTGCGACATGCTGCTCATAGATTTCA 453

Db 121 NNN 180

Qy 454 AGTACCACAGAACTCAACGAGCTTGTGATGAATAATTTTAAAAATTTCCAAAGAG 513

Db 181 AGTACCACAGAACTCAACGAGCTTGTGATGAATAATTTTAAAAATTTCCAAAGAG 240

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Db 361 TTGAAGAGATCAGAAAGAAAGCCAAAGAGCCGAACGCACTCAATATGAACAA 420

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[illegible]

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	5', mRNA sequence.	CDNA clone IMAGE:6137888

VERSION	BU153780.1	GI:22667312
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catearrhini; Homiidae; Homo.
1 (bases 1 to 909)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.

FEATURES

source

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/db_xref="taxon:9606"
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Average insert size 1.75 kb. Library constructed by Life
Technologies."

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ACCESSION     BU184787
VERSION       BU184787.1 GI:22698771
KEYWORDS      EST.
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ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo
1 (bases 1 to 848)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.lnl.gov
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High quality sequence stop: 710.
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Average insert size 1.1 kb. Library constructed by Life
Technologies."
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VERSION       BQ888698.1 GI:22280712
KEYWORDS      EST.
SOURCE        Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo
1 (bases 1 to 895)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.lnl.gov
Plate: LLM2320 row: o column: 07
High quality sequence stop: 705.
Location/Qualifiers
1..895
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6086238"
/tissue_type="ductal carcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_110"
FEATURES
SOURCE

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/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCAACGG(C). Library constructed by
ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC library."

ORIGIN

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Query Match      38.7%; Score 811.4; DB 5; Length 895;
Best Local Similarity 98.2%; Pred. No. 5e-155;
Matches 863; Conservative 0; Mismatches 11; Indels 5; Gaps 4;

309 AAACCTGGGGAAAAATTATGAGAAAGCTGTAAACGTATGATCTGGGAGAAAAAGCTTA 368
    4 AACCTGGGGAAAAATTATGAGAAAGCTGTAAACGTATGATCTGGGAGAAAAAGCTTA 63
369 CTACGATGAGTGGCCAAAGATCGGTGAGATTCACCTGGTCCCGGTCTCAACTGAACT 428
    64 CTACGATGAGTGGCCAAAGATCGGTGAGATTCACCTGGTCCCGGTCTCAACTGAACT 123
429 GGGATATGCTTCATAGAGATTTCAAGTACCACAAAGAACTCAACGAGCTTGATGA 488
    124 GGGATATGCTTCATAGAGATTTCAAGTACCACAAAGAACTCAACGAGCTTGATGA 183
489 AAATTTTAAAAAATTCACAAAGAGATTATCCATAGCTGGAGAGAAAGATGAAGCTTGA 548
    184 AAATTTTAAAAAATTCACAAAGAGATTATCCATAGCTGGAGAGAAAGATGAAGCTTGA 243
549 CGTGAATATATGAAACGCAACTCTAAAAAGATACCAACAGAACAAAGATTAATTGA 608
    244 CGTGAATATATGAAACGCAACTCTAAAAAGATACCAACAGAACAAAGATTAATTGA 303
609 GCTTTTGGAGAAATCCCAAGCTGAGTTGAAGAAATCGAAGAGAAAGCCAGAGCCG 668
    304 GCTTTTGGAGAAATCCCAAGCTGAGTTGAAGAAATCGAAGAGAAAGCCAGAGCCG 363
669 AAACGACTCAAAATATGAAACAAAGAAATGAGATGTGAGAGCCGTACTCTCCGCA 728
    364 AAACGACTCAAAATATGAAACAAAGAAATGAGATGTGAGAGCCGTACTCTCCGCA 423
729 GAGTGAATTCAGAAATTCATTCGATGCTTGCAGAGAGCTCTGCTTGAAGAGAG 788
    424 GAGTGAATTCAGAAATTCATTCGATGCTTGCAGAGAGCTCTGCTTGAAGAGAG 483
789 GCGCTTCTGCTTTCTGTTGATTAAGCACTGGCTTGCAGAACCAATCAATTATCA 848
    484 GCGCTTCTGCTTTCTGTTGATTAAGCACTGGCTTGCAGAACCAATCAATTATCA 543
849 CTTCAGCTGTCAGAACTACTGAAATTCAGCTGCTGCTGGGAGAGAGCTCTGTTGA 908
    544 CTTCAGCTGTCAGAACTACTGAAATTCAGCTGCTGCTGGGAGAGAGCTCTGTTGA 603
909 TGGCATCAAAAGTGCAGAGAAATCATGATATGATGAGAGAAATTAAGACCCAGCTC 968
    604 TGGCATCAAAAGTGCAGAGAAATCATGATATGATGAGAGAAATTAAGACCCAGCTC 663
969 TACCCCGGTGTGGAATCTCTCAGGCTTCAACCATGATGAGAGAGCAATGTGTTAG 1028
    664 TACCCCGGTGTGGAATCTCTCAGGCTTCAACCATGATGAGAGAGCAATGTGTTAG 723
1029 GAAAGATTAGAGACACCTTTCTAAATGCTACCAAAAGATGCCCGGCTCTTCAAGCA 1087
    724 GAAAGATTAGAGACACCTTTCTAAATGCTACCAAAAGATGCCCGGCTCTTCAAGCA 783
1088 GAGATATACCACTGCTTGAATGATTTAAT-AAACGAGCAGGCTG-CCCGGAA 1145
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1146 TTCAAGAGGTTAA--TAATCAAGGTAATTCCGA 1182
    844 ATCAACAGGAGAAATTAATTCACAAAGTACTTTCGA 882
  
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RESULT 8
CA450094/C
LOCUS
DEFINITION
UI-CF-FNO-a-fb-o-02-0-UI s1 UI-CF-FNO Homo sapiens CDNA clone
ACCESSION
CA450094.1 GI:24814514
VERSION
EST.
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 814)
Bonaldo,M.F., Lennon,G. and Soares,M.B.
Normalization and subtraction: two approaches to facilitate gene
discovery
Genome Res. 6 (9), 791-806 (1996)
889348
COMMENT
Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@iowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com) or from Open Biosystems
(www.openbiosystems.com).
Seq primer: M13 FORWARD
POLYA=Yes

FEATURES

source

Location/Qualifiers

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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="ui-CF-FNO-a-fb-o-02-0-UI"
/tissue_type="Human Lung Epithelial cells"
/lid_host="DH10B (Life Technologies) (TI phage resistant)"
/clone_lid="UI-CF-FNO"
/note="Organ: Lung; Vector: pRTT3-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-CF-FNO is a subtracted cDNA library derived from two
normalized Human lung epithelial cell libraries (EN1 and
DUI) The library was subtracted according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. For additional information, contact:
bento-soares@iowa.edu
TAG TISSUE=Human Lung Epithelial Cell lines untreated LPS
6hr to LPS 24h
TAG LIB=UI-CF-FNO
TAG_SEQ=CTGCTCAGGT"
  
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ORIGIN

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Query Match      38.3%; Score 803.4; DB 6; Length 814;
Best Local Similarity 99.1%; Pred. No. 2.1e-153;
Matches 807; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

1239 GCAGAAAGTGAAGACCATCTTCCGCACTGGGGCTCCAAAGACCTTACTACGCTT 1298
    814 GCAGAAAGTGAAGACCATCTTCCGCACTGGGGCTCCAAAGACCTTACTACGCTT 755
1299 TGACAGGGAGATGATCAAGCTGCTCAATCCCGAGAGAAAGATGCGCTGCTATGG 1358
    754 TGACAGGGAGATGATCAAGCTGCTCAATCCCGAGAGAAAGATGCGCTGCTATGG 695
1359 AGAACAGACAGCTGTCCAAAGCGAGGGGTTGTTCCGTCGTATACGAAGTTGCTGA 1418
  
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Db		694	AGAACACGACGTCTCCAAAGCGAAGGGTTTGTCCTCCGTCTGTAACAAGATTGCTTGA	635
Oy		1419	AGAAAATGAGACAGAACCACTGACCTGTGCCACGCACAGCCCAACAACGATGAGAAGCAT	1478
Db		634	AGAAAAAGAACAGANACAGTAGACCCTGCCCCACGCCACAGCCTCCACACAGTGAAMACAT	575
Oy		1479	CAGACCCGTAAACTTGTCTAGAGATPACAGATGTTGTATCCCCCACCCGACCTACTTTGGA	1538
Db		574	CAGACACCGTAACTTGTCTGAAATPACAGATGTTGTATCCCCCACCCGACCTACTTTGGA	515
Oy		1539	ATGCTTGTCCAATGGGGGACAGCTGCCGACAGAGAGACAGATTCCGACAGACATCATCAC	1598
Db		514	ATGCTTGTCCATGGGGGACAGCTGCCGACAGAGAGACAGATTCCGACAGACATCATCAC	455
Oy		1599	CTTTTAAGCCCCACAGCTTCCAAAGCCCGGACCGCGGCTCTTAAAGATGCAACGGGACTGC	1658
Db		454	CTTTTAAGCCCCACAGCTTCCAAAGCCCGGACCGCGGCTCTTAAAGATGCAACGGGACTGC	395
Oy		1659	AAAGCCGCCCTTTTCTCAGCGGAGAAAACCCCTTTGCCACTGTGAAAATCCGCCGACTGT	1718
Db		394	AAAGCCGCCCTTTTCTCAGCGGAGAAAACCCCTTTGCCACTGTGAAAATCCGCCGACTGT	335
Oy		1719	GACGAATGATCGCTCGGACCCATCATTTCCATGAGAGACAGCCACAGACATCTCCCGGAC	1778
Db		334	GACGAATGATCGCTCGGACCCATCATTTCCATGAGAGACAGCCACAGACATCTCCCGGAC	275
Oy		1779	CTCTCCGGTTCTCCCTTGCCGGAATGATGGGAGCATCCGTCTGCCACATGCTGACGCTGC	1838
Db		274	CTCTCCGGTTCTCCCTTGCCGGAATGATGGGAGCATCCGTCTGCCACATGCTGACGCTGC	215
Oy		1839	GGAAGCTTTCAGTGGAGAGAGCCCTAACTTAAATGTGCGCTGCTTAAAGCAAATCATGCTTC	1898
Db		214	GGAAGCTTTCAGTGGAGAGAGCCCTAACTTAAATGTGCGCTGCTTAAAGCAAATCATGCTTC	155
Oy		1899	TGTTTCAAGTATGGTGGTTGACCAAGTTTCGCCCTTAAAGAAATGATAATATGCTAAT	1958
Db		154	TGTTTCAAGTATGGTGGTTGACCAAGTTTCGCCCTTAAAGAAATGATAATATGCTAAT	95
Oy		1959	GACCAGCTCAGCCACATTTAAATATTTTTCTTCTTATTCCTTCAAGAAACAGTAAACTTGG	2018
Db		94	GACTAAGCTCAGCCACATTTAAATATTTTTCTTCTTATTCCTTCAAGAAACAGTAAACTTGG	35
Oy		2019	TTTCAATCTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2052	
Db		34	TTTCAATCTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1	
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LOCUS		AGNCOURT_7825544 NIH_MGC_70 Homo sapiens CDNA clone IMAGE:6093473		
DEFINITION		5', mRNA sequence.		
ACCESSION		BUI84917		
VERSION		BUI84917.1 GI:22698901		
KEYWORDS		EST.		
SOURCE		Homo sapiens (human)		
ORGANISM		Homo sapiens		
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrates; Euteleostomi;		
		Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;		
		Homidae; Homo.		
REFERENCE		1 (bases 1 to 877)		
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/.		
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL		Unpublished (1999)		
COMMENT		Contact: Robert Strausberg, Ph.D. Email: cga@bbs-r@mail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Life Technologies, Inc. DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/JLNL at:		

FEATURES									
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/clone_id="NIH_MGC_70"									
/note="Oxyan: pancreas; Vector: pCMV-Sport6; Site 1: Notr; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.1 kb. Library constructed by Life Technologies."									
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Query Match	37.9%	Score 794.8;	DB 5;	Length 877;					
Best Local Similarity	97.8%	Pred. No. 1.2e-151;							
Matches 859;	Conservative 0;	Mismatches 12;	Indels 7;	Gaps 5;					
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OY	1238	AGCAGAAAGTGAAGACATCTTCCCCGACACTGGGGGCTCCACAAAGCCTTACTCAGCT	1297						
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OY	1298	TTTGACAGGGGAGATGTATCATACGCTGCTCATCCCGAGAGAGAGATGGCTGCTATG	1352						
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OY	1358	GAGAACACGACGTGTCCAAAGGCGAGGGGTTGTTCCGTCGTCTGTAACGAATTTGCTGG	1417						
DB	241	GAGAACACGACGTGTCCAAAGGCGAGGGGTTGTTCCGTCGTCTGTAACGAATTTGCTGG	300						
OY	1418	AAGAAATATGACACAGAAAGCAATGACCGGCCACAGCCCAAGCCCAACCACTGAGAAACA	1477						
DB	301	AAGAAATATGACACAGAAAGCAATGACCGGCCACAGCCCAAGCCCAACCACTGAGAAACA	360						
OY	1478	TCAGCACCGTGAACCTTGTCTGAGATATAGCAAGTGTGTTCATCCGCCACCGACTACTTGG	1537						
DB	361	TCAGCACCGTGAACCTTGTCTGAGATATAGCAAGTGTGTTCATCCGCCACCGACTACTTGG	420						
OY	1538	AATGCTTTCATATGAGGGGCGAGCTGCCGACAGAGAGACAGATTCGGCCACAGACGACATCCA	1597						
DB	421	AATGCTTTCATATGAGGGGCGAGCTGCCGACAGAGAGACAGATTCGGCCACAGACGACATCCA	480						
OY	1598	CCTTTAAGGGCCCGAGCGTCCAAAGCCGAGACCGGGGCTCTTAACGATCCCAACGGGACTG	1657						
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DB	541	CAAAAGCCGCTTTTCTCAGCGAGAGAAAACCCCTTTGCCACTGTGAACTCCGCCGACTG	600						
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OY	1778	CCCTCCGGTTCCTCTTGGGAGATGATGGGGCATCTCTGTCTGCAAGTGTGACGATC	1837						
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DB	720	GGGAAGCTTCACTGAGAGAGGCTTAATCTAATGTGCTGCTTTAAGCAATATATGCTCT	778						

QY 1898 CTGTTTAC--GTATGGGTGACAAAGTTT--CTGCTTTAAGATAATGAGT-AATAG 1952
 Db 779 CTGTTTCCCCGTAATTTGGGGTTTACCAAGTTTCTGCTTTAAGATAATGAGTAAATAG 838
 QY 1953 TCTAATGACCAAGTCTGACCACTTTAAATATTTTCTTC 1990
 Db 839 TCTAATGACCAAGTCTGACCACTTTAAATATTTTCTTC 876

RESULT 10
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 5', mRNA sequence.
 ACCESSION BO688252
 VERSION BO688252.1 GI:21813568
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 916)
 NIH-MGC http://mgi.nci.nih.gov/.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.llnl.gov
 Place: LNCM2362 row: 9 column: 10
 High quality sequence stop: 673.
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 /clone="IMAGE:6207009"
 /tissue_type="ductal carcinoma, cell line"
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 /note="Organ: pancreas; Vector: pOTB7; Site: 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

FEATURES
 source

ORIGIN
 Query Match 37.8%; Score 792.2; DB 5; Length 916;
 Best Local Similarity 99.6%; Pred. No. 4.2e-151;
 Matches 794; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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 QY 368 ACTGCGAATGAGTGGCCCAAGATCGGTGATTTGCCACTGGGTCCCGGTGCTCACTGAAC 427
 Db 61 ACTGCGAATGAGTGGCCCAAGATCGGTGATTTGCCACTGGGTCCCGGTGCTCACTGAAC 120
 QY 428 TGGGACATGTCCTCATAGATTTTCAAGTACCAACAAGAACTCAACAGAGTCTTATG 487
 Db 121 TGGGACATGTCCTCATAGATTTTCAAGTACCAACAAGAACTCAACAGAGTCTTATG 180

QY 488 AAAATTTAAAAAATTCACAAAGAGATTATCCATGAGCTGAGAGAAAGATAGAACTTG 547
 Db 181 AAAATTTAAAAAATTCACAAAGAGATTATCCATGAGCTGAGAGAAAGATAGAACTTG 240
 QY 548 ACGTGAATATATATGAAACGCAACTCTTAAAAAAGATACCAACAAGAAATTAATAG 607
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 QY 668 GAAACGCACTCAATATGAAACAACAAGAAATGAGATGAGAGACCGTTACTTCGTC 727
 Db 361 GAAACGCACTCAATATGAAACAACAAGAAATGAGATGAGAGACCGTTACTTCGTC 420
 QY 728 AGAGTGAATTCAGAAATTCATTCAGATGTTGCAAGAGGCTCTGTTGAAGAGAGA 787
 Db 421 AGAGTGAATTCAGAAATTCATTCAGATGTTGCAAGAGGCTCTGTTGAAGAGAGA 480
 QY 788 GCGGCTTCTGCTTTCTGTTGATTAAGCACTGCGCTTTCGCAACATATATTATTC 847
 Db 481 GCGGCTTCTGCTTTCTGTTGATTAAGCACTGCGCTTTCGCAACATATATTATTC 540
 QY 848 ACTTACAGTCTGACAGAACTAGAAATTCGAAAGCTGCTGGTGGAGAGACCTGTTG 907
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 QY 908 ATGCATCAAAAGTGCAGAGAAATCATGATATATGATCGAAGAAATTAAGACCCAGCCT 967
 Db 601 ATGCATCAAAAGTGCAGAGAAATCATGATATATGATCGAAGAAATTAAGACCCAGCCT 660
 QY 968 CTACCCCGCTGCTGGAATCTCTCAGGCTTCCCATATATCGAAGAAATTAAGAGTGTG 1027
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 QY 1028 GGAAGATTATGACACACCTTTCTAATGCTCACCAGAGTCCCGCTCTTACAGCA 1087
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QY 1088 GAGCATATATCAAGTCCC 1104
 Db 781 GAGCATATATCAAGTCCC 797

RESULT 11
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 VERSION BI333892.1 GI:15018549
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 812)
 NIH-MGC http://mgi.nci.nih.gov/.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: Incyte Genomics, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.llnl.gov
 Place: LHAM11348 row: n column: 07
 High quality sequence stop: 812.

FEATURES

SOURCE

Location/Qualifiers
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/tissue_type="cervical carcinoma cell line"
/lab_host="DH10B"
/clone_lib="NH_MGC_12"
/note="Organ: cervix; Vector: pCMV-Sport6; Site: 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.4 kb. Library prepared by Life
Technologies."

ORIGIN

Query Match 37.0%; Score 775.2; DB 3; Length 812;
Best Local Similarity 99.4%; Pred. No. 1.2e-147;
Matches 799; Conservative 0; Mismatches 3; Indels 2; Gaps 2;

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OY 769 GCTCTGCTTGAAGAGAGAGCGCTTCTGCTTCTGTTGATNACACTGTGGCTTTGCA 828
DB 61 GCTCTGCTTGAAGAGAGAGCGCTTCTGCTTCTGTTGATNACACTGTGGCTTTGCA 120
OY 829 AACCATATCATTTATATATATATATATATATATATATATATATATATATATATAT 888
DB 121 AACCATATCATTTATATATATATATATATATATATATATATATATATATATATAT 180
OY 889 TGGCAGAGAGAGCTGTGTTGATGTCATCAAGGCGCAGAGAAATCATGAAATATGATCGA 948
DB 191 TGGCAGAGAGAGCTGTGTTGATGTCATCAAGGCGCAGAGAAATCATGAAATATGATCGA 240
OY 949 GAAATTAAGACCCAGCCTCTACCCCGCTGTCTGTAACCTCTCAGGCTTCAACCCATGATC 1008
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OY 1009 GAGAGAGCATGTGTTGTTGAAAGATTGACACCCCTTTCTAATGCTCACCAGAAAGT 1068
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OY 1069 CCCCCCGCTCTTCAAGGAGAGATATACAGTCCCTTATGATGATGTTTATTAACCA 1128
DB 361 CCCCCCGCTCTTCAAGGAGAGATATACAGTCCCTTATGATGATGTTTATTAACCA 420
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DB 421 GCCACGGCTGCCCGAATTCACAAAGGTTAATTAATTAACAGTATCTTCCGAAGTCC 480
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DB 481 AGTTTACAGCATCACTTTCGTTGTCAGAGGATCAATGATGTAAGAGCAAGAAAGT 540
OY 1249 AAGACATCTTCCCGACACTGGGCTCCCAABAACCTTACTCAGCTTTGACAGGGA 1308
DB 541 AAGACATCTTCCCGACACTGGGCTCCCAABAACCTTACTCAGCTTTGACAGGGA 600
OY 1309 GATGTATCATCACTGTCTCATCCCGAGAGAGAAAGATGGCTGCTTATGAGAACACGAC 1368
DB 601 GATGTATCATCACTGTCTCATCCCGAGAGAGAAAGATGGCTGCTTATGAGAACACGAC 660
OY 1369 GTGTCCAAAGCGAGGGGTGTGTTCCCGTGTGCTTACCAAGATGTTGTAAGAAATGAG 1428
DB 661 GTGTCCAAAGCGAGGGGTGTGTTCCCGTGTGCTTACCAAGATGTTGTAAGAAATGAG 720
OY 1429 ACAGAGACAGTGAACGTCGCCAGCCAGCCCAACAGTGAAGAGCAT-CAGCACCGT 1487
DB 721 ACAGAGACAGTGAACGTCGCCAGCCAGCCCAACAGTGAAGAGCAT-CAGCACCGT 779
OY 1488 GAACTTGTCTGAGATATGACAGTGT 1511

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DB 780 GAACTTGTCTGAGATATGACAGGCT 803

RESULT 12
BM981661/c 779 bp mRNA linear EST 21-FEB-2003
LOCUS
DEFINITION
UI-CF-EN1-adi-m-10-0-UI.s1 UI-CF-EN1 Homo sapiens cDNA clone
UI-CF-EN1-adi-m-10-0-UI.3', mRNA sequence.
ACCESSION
BM981661
VERSION
BM981661.1 GI:19604378
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL
PUBMED
COMMENT
Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@iowa.edu
Tissue Procurement: Dr. M. J. Welsh, University of Iowa
cDNA library preparation: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com) or from Open Biosystems
(www.openbiosystems.com).
The following repetitive elements were found in this cDNA
sequence: 1-21, >AT rich#low_complexity
Seq primer: M13 FORWARD
POLYA=Yes.

FEATURES

SOURCE

Location/Qualifiers
1. .779
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-CF-EN1-adi-m-10-0-UI"
/tissue_type="Primary Lung Cystic Fibrosis Epithelial
Cells"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies) (T1 phase resistant)"
/clone_lib="UI-CF-EN1"
/note="Organ: Lung; Vector: pT7T3-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-CF-EN1 is a normalized cDNA library containing the
following tissue(s): Primary Lung Cystic Fibrosis
Epithelial Cells. The library was constructed according to
Bonaldio, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pT7T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tag for this library is CTGCTCAGGT.
TAG TISSUE=Human Lung Epithelial Cell lines untreated LPS
6hr to LPS 24h
TAG_LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

ORIGIN

Query Match 36.7%; Score 768.4; DB 3; Length 779;
Best Local Similarity 99.1%; Pred. No. 3e-146;

	Matches	772; Conservative	0; Mismatches	7; Indels	0; Gaps	0
QY	1269	TGGGGCTCCAAACAAACCTTACTGACGTTTGACACGGAGATGTCAATACGCTGCTCAT				1322
Db	779	TGGGGCTCCAAACAAACCTTACTGACGTTTGACACGGAGATGTCAATACGCTGCTCAT				720
QY	1329	CCCCGAGAGAAAGATAGCTGCTCTATGAGAAACGACGATGTCCAAAGCGAGGGGTTG				138
Db	719	CCCCGAGAGAAAGATAGCTGCTCTATGAGAAACGACGATGTCCAAAGCGAGGGGTTG				660
QY	1389	GTTCCCGTGTGCTACACGAAGTTGCTGGAAGAAAATGAGACAGAAAGCAGTGAACCGTGCC				1441
Db	659	GTTCCCGTGTGCTACACGAAGTTGCTGGAAGAAAATGAGACAGAAAGCAGTGAACCGTGCC				600
QY	1449	CACGCCAAGCCCCACACCGTAGAGAGCATACGACACCGTGAACCTTGCTGGAATATGACAG				1501
Db	599	CACGCCAAGCCCCACACCGTAGAGAGCATACGACACCGTGAACCTTGCTGGAATATGACAG				540
QY	1509	TGTTGTCAATCCCCCACCACCGACTACTTGGAATGCTTGTCATATGGGGGACAGTCCGACAG				1566
Db	539	TGTTGTCAATCCCCCACCACCGACTACTTGGAATGCTTGTCATATGGGGGACAGTCCGACAG				480
QY	1569	GAGAGCAGATTGGGCCAGGACGACATCCACTTTAAAGSCCCAGCGTCCAAAGCCCCGAGAC				1622
Db	479	GAGAGCAGATTGGGCCAGGACGACATCCACTTTAAAGSCCCAGCGTCCAAAGCCCCGAGAC				420
QY	1629	CGCGGCTCCTTAAGATATGCGCAAGGGGACGTGCAAAAGCGCCTTTCTTCAAGCGGAGAAAACC				1688
Db	419	CGCGGCTCCTTAAGATATGCGCAAGGGGACGTGCAAAAGCGCCTTTCTTCAAGCGGAGAAAACC				360
QY	1689	CTTTGCCACTGTGAAACTTCGCGCGGACCTGTGACATGATGCTCGGACACCCATCATTTG				1746
Db	359	CTTTGCCACTGTGAAACTTCGCGCGGACCTGTGACATGATGCTCGGACACCCATCATTTG				300
QY	1749	ATGAGAGAGCAGCCCAAGAGACTTCCCGGGCTCTCCGGTTCTTCCTTGGCAATATGAGG				1806
Db	299	ATGAGAGAGCAGCCCAAGAGACTTCCCGGGCTCTCCGGTTCTTCCTTGGCAATATGAGG				240
QY	1809	CGCATCTCTGTCTGCCACGCTGTGACGCGTGGGAGACCTTCAGTGGAGAGGCTTAACTCTTA				1866
Db	239	CGCATCTCTGTCTGCCACGCTGTGACGCGTGGGAGACCTTCAGTGGAGAGGCTTAACTCTTA				180
QY	1869	TGTGCCCTGTCTTAAGCAAAATCATGCTTCTGTTCACGATAGTTGGTGAACAATTTCT				1928
Db	179	TGTGCCCTGTCTTAAGCAAAATCATGCTTCTGTTCACGATAGTTGGTGAACAATTTCT				120
QY	1929	GCCTTTAAGATTAATGAGTAATAGCTAATGACGAGCTCAGCACTTAAATAATTTCTT				1988
Db	119	GCCTTTAAGATTAATGAGTAATAGCTAATGACGAGCTCAGCACTTAAATAATTTCTT				60
QY	1989	CCATATCTGTTCAAGAAAACAGTAAACTTGTTTCATCTTTAAAAAATTTTTTTT				2047
Db	59	CCATATCTGTTCAAGAAAACAGTAAACTTGTTTCATCTTTAAAAAATTTTTTTT				1
RESULT 13						
LOCUS	BUS00695		943 bp	mRNA	linear	EST 12-SEP-2002
DEFINITION	AGNCCOURT 7860835 NIH_MGC_64 Homo sapiens cDNA clone IMAGE:6109543					
ACCESSION	BUS00695					
VERSION	BUS00695.1					
KEYWORDS	EST.					
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;					
	Homidae; Homo.					
REFERENCE	1 (bases 1 to 943)					
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/.					
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL	Unpublished (1999)					
COMMENT	Contact: Robert Strausberg, Ph.D.					

Email: c9apb@r-mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: NIMH/DOG
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L10CM2355 row: j column: 08
High quality sequence start: 43
High quality sequence stop: 453.
Location/Qualifiers

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/db_xref="taxon:9606"
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/clone_id="NIH_MGC_64"
/note="Vector: pOMB7A; Site 1: Cent; Site 2: Scel; This library is a size selection of NIH_MGC_35_ from 3.0-4.5 kb. Size selection done at the National Institute of Mental Health, NIH. Note: this is a NIH_MGC Library."

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ORIGIN

Query Match	Best Local Similarity	Score	DB	Length
Matches 865;	Conservative 0;	Mismatches 32;	Indels 11;	Gaps 8
1151	AAAGGTAATTAATTCAACAGCT-AC	762.6;	DB 5;	943;
17	AAGGGTAATTAATTCAACAGCTTGAAGATCCAGTTTACAGCATCACTTTGG			1208
1210	GTTGCAACGGGACGTGAACATGATGAAGAGAAAGTGAACCATCTTTCCGCACT			1265
77	GTTGCAACGGGACGTGAACATGATGAAGAGAAAGTGAACCATCTTTCCGCACT			136
1270	GCGGGCTTCAACAAGACCTTACTAGCTTTTCAACAGGAGATGTCATCAGCTGCTATC			1328
137	GCGGGCTTCAACAAGACCTTACTAGCTTTTCAACAGGAGATGTCATCAGCTGCTATC			196
1330	CCCGAGGAAGATGCTGCTCTTATGAGAACACGACGTGTCMAAGCGAGGGCTTGG			1388
197	CCCGAGGAAGATGCTGCTCTTATGAGAACACGACGTGTCMAAGCGAGGGCTTGG			256
1390	TTCCCGTGTGTCACAGAAAGTTCTGGAAGAAATGACAGAAAGACGTGACCGTCCG			1449
257	TTCCCGTGTGTCACAGAAAGTTCTGGAAGAAATGACAGAAAGACGTGACCGTCCG			316
1450	ACGCGAAGCCCAACACAGTGAAGATCAGCACCGTGAATCTTGTCTGAATATGACGT			1509
317	ACGCGAAGCCCAACACAGTGAAGATCAGCACCGTGAATCTTGTCTGAATATGACGT			376
1510	GTTGTCA-TCCCCCAACCGCATCTTGAATGCTTGT---CATGGGGGACCTGCGCA			1565
377	GTTGTCA-TCCCCCAACCGCATCTTGAATGCTTGT---CATGGGGGACCTGCGCA			436
1566	CAGAGAGACGATTTGGCCACAGACACA-TCAACCTTTAAGGCCCAAGCGTCAAGCCG			1624
437	CAGAGAGACGATTTGGCCACAGACACATTTCACTTTAAGGCCCAAGCGTCAAGCCG			496
1625	AG-ACCGGGCTCTTAAGATGCCAAGGGA--CTGCAAGCGCGCTTTTCTCAGCGAG			1681
497	AGAACCGCGCTCTTAAGATGCCAAGGGA--CTGCAAGCGCGCTTTTCTCAGCGAG			556
1682	AAAAACCTTTGGCACTGGAAC-TCCGCCACGTGTGAGAAATGATTCCTGGGACCC			1740
557	AAAAACCTTTGGCACTGGAAC-TCCGCCACGTGTGAGAAATGATTCCTGGGACCC			616
1741	A-TCAATTCGATGAGAGACAGCCAAAGACTTCGCCGGCTTCCGGTTTCTCCCTTGG			1799
617	ATTCAATTCGATGAGAGACAGCCAAAGACTTCGCCGGCTTCCGGTTTCTCCCTTGG			676

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC/DCID/DRP
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: L1CM1713 row: c column: 17
High quality sequence stop: 851.

FEATURES

source

Location/Qualifiers
1. 933
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4858696"
/issue_type="melanotic melanoma, high MDR (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 49"
/note="Organ: skin; Vector: pORF7; Site 1: XhoI; Site 2:
EcoRI; CDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-CDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
Library."

ORIGIN

Query Match 36.1%; Score 757.2; DB 2; Length 933;
Best Local Similarity 95.8%; Pred. No. 66-144;
Matches 885; Conservative 0; Mismatches 28; Indels 11; Gaps 10;

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DB 2 GAAAGCAATGTGTGTAAGAAAGTTACGACACCTTTCTTAATGCTCACCMAAGATGCCCC 61
QY 1073 CCGCTCTTCAAGGAGAGATATACAGTCCCTTGATGATATGTTTAATATACCAAGCA 1132
DB 62 CCGCTCTTCAAGGAGAGATATACAGTCCCTTGATGATATGTTTAATATACCAAGCA 121
QY 1133 CCGCTGCCCCGAATTCACAAAGGATAAATTAATTCACAGTACTCCGAAGATCCAGTT 1192
DB 122 CCGCTGCCCCGAATTCACAAAGGATAAATTAATTCACAGTACTCCGAAGATCCAGTT 181
QY 1193 TACAGCGATCAGTTTGGTTGACAGGACCTGAACATGATGAAGAGCAAAAGTGAAGA 1252
DB 182 TACAGCGATCAGTTTGGTTGACAGGACCTGAACATGATGAAGAGCAAAAGTGAAGA 241
QY 1253 CCATCTTCCCGC -ACACTGGGGGGCTCCAA -CAAGACCTTACAGCTTGACAGGGAGA 1310
DB 242 CCATCTTCCCGCAGACTGCGGGCTCCAAAGACCTTACTCAGCTTTGACAGGGAGA 301
QY 1311 TGTATCAAGCTGTCTATCCCGAGAGAGAGATGGCTGCTATGAGAAACAGACGT 1370
DB 302 TGTATCAAGCTGTCTATCCCGAGAGAGAGATGGCTGCTATGAGAAACAGACGT 361
QY 1371 GTTCAAGGCGAGGGGTTGGTTCCGTCGTCTGTAACGAAGTTGCTGAAAGAAATGAGAC 1430
DB 362 GTTCAAGGCGAGGGGTTGGTTCCGTCGTCTGTAACGAAGTTGCTGAAAGAAATGAGAC 421
QY 1431 AGAAGCAGTAGC -GTGCCACGCGCAAGCCCCA -CACAGTGAAGAGATCAGACCGGTG 1488
DB 422 AGAAGCAGTAGCCTGTGCCACGCGCAAGCCCCAAGTGAAGAGATCAGACCGGTG 481
QY 1489 AACTTGTCTGAAGATAGCAGTGTGTCTATCCCGACCGGACTACTTGAAGTGTGTGCC 1548
DB 482 AACTTGTCTGAAGATAGCAGTGTGTCTATCCCGACCGGACTACTTGAAGTGTGTGCC 541
QY 1549 ATGGGGGAGCTGCCGAGAGAGAGAGAGATTCGGCAGAGATCCAGATCCCTTTAAGGCC 1608

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DB 542 ATGGGGGAGAGCTGCCGAGAGAGAGAGAGATTCGGCCAGAGACGACATCCACTTTAAGGCC 601
QY 1609 CCAAGCTCTTAAG -CCCGAGACCGCGGCTCTTAACGATGCCCAACGGGACTGCAAGCCGCC 1667
DB 602 CCAAGCTCTTAAGTCCCGAGACCGCGGCTCTTAACGATGCCCAACGGGACTGCAAGCCGCC 661
QY 1668 TTTTCTCAGCGGAGAAACCCCTTTGCCACTGTGAACCTCCGCGGACTGTGACGAATGA 1727
DB 662 TTTTCTCAGCGGAGAAACCCCTTTGCCACTGTGAACCTCCGCGGACTGTGACGAATGA 721
QY 1728 TCGCTCGGACCCATCATTCATGATGAGAGAGACCAAGGACTCTCCGGGCTCTCCGCT 1787
DB 722 TCGCTCAGACCCATCATTCATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
QY 1788 TTTCCCTTCGGGAATGATGAGGCGCATTCCTGTG -TGCACGTCTCTGACGGTGGAAAGCTT 1846
DB 781 CTCCTTCGGGGAATGATGAGGCGCATTCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
QY 1847 CAGTGA -GAGGCTTAACCTTAATGTC -GCCTGCTTAAGCAAT -CATGCTTCTGTGTT 1902
DB 841 CAGTGAAGAGGCGCTTAACCTTAATGTCGCGCTTGAAGCAATCATGCTTCTGTGTT 900
QY 1903 TCACGTAGTTGGTTGACAAAGTTT 1926
DB 901 TCACGTAGTTGGTTGACAAAGTTCT 924

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Search completed: March 20, 2006, 15:59:48
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